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ILLINOIS CORN PERFORMANCE TESTS . . . 1940



University of Illinois · Agricultural Experiment Station

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Seventh Annual

Illinois Corn Performance Tests 1940

By R. R. Copper, G. H. Dungan, A. L. Lang, J. H. Bigger, Benjamin Koehler, and Oren Bolin¹

F THE 7,551,000 acres of corn in Illinois in 1940, 77 percent or 5,814,270 acres was planted to hybrids. This is the largest acreage of hybrid corn on record in the state. The extensive use of hybrids was responsible for a relatively high state average yield, 44 bushels an acre, in spite of a shortage of moisture in many important corn-growing areas. The average yield for the previous ten years was 36 bushels an acre.

SCOPE OF THE TESTS

Three hundred eighty-six hybrids and 26 open-pollinated varieties were included on twelve Illinois corn-performance test fields in 1940, the largest number of hybrids ever entered in the Illinois test. Sixty-seven companies and individuals entered hybrid seed, and twenty-five companies and individuals furnished seed for the open-pollinated varieties.

Two new testing fields were included, one at Mt. Pulaski in Logan county and the other at Greenfield in Greene county. Five fields in the north-central and central sections of the state had 75 entries each. The other fields had 60 entries each, except Albion, which had only 53. Six open-pollinated varieties were used on the Albion field as a check; 5 were used on each of the other fields. Because of the number of producers desiring to submit seed, it was necessary to limit the number of kinds each could enter.

Seed samples were obtained directly from the warehouses of the producers entering the corn, except in a few instances where small quantities were shipped to the Experiment Station by the producers. These small samples and all samples taken from less than five different bushel lots are marked with an asterisk (*) in the tables.

Records were made of total yield, sound yield, percent of moisture in grain at harvest, lodging resistance, and soil adaptability. On the Round Lake field and the Kings field a moisture test was made a little over a week after the first killing frost.

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SOIL CHARACTERISTICS OF FIELDS

The fields chosen for the 1940 tests were, on the whole, medium to high in productivity. In locating a field, effort was made to select a soil type that occurs extensively in the region represented by the field. Furthermore care was taken to have each field as nearly uniform as possible, both in soil type and in drainage conditions. However, at Reddick the surface soil was alkaline in reaction, and the texture varied from sandy silt loam to clay loam. At Paxton the depth to

Table 1.—GENERAL INFORMATION: Illinois Cooperative Corn Performance Tests, 1940

Location of field	Country	Cooperator	Number of	Date	Date	Average acre-yield all entries		
neid	County	Cooperator	entries	planted	harvested	Total	Sound	
						bu.	bu.	
NE-Round Lake	Lake	Joseph Wiser	. 60	May 24	Nov. 15	74.1	72.1	
N—Kings	Ogle	Elmer Hayes	. 60	May 18	Nov. 8	101.9	92.4	
WNC-Cambridge	Henry	Earl Collis	. 75	May 16	Nov. 7	86.8	83.6	
		Thomas Jenson		May 11	Oct. 21	77.7	76.6	
WC-Littleton	Schuvler	Ira Burnham	. 75	May 21	Oct. 24	82.3	81.4	
		James Cowan		May 13	Oct. 29	62.8	61.7	
EC-Paxton	Ford	Arthur Stevenson	. 75	May 14	Oct. 22	55.3	54.0	
ESC—Sullivan	Moultrie	Masonic Home Farm,						
		Monroe Wilson, Mgr	. 60	May 14	Oct. 31	70.9	70.1	
WSC—Greenfield	Greene	Glenn Smith	. 60	May 21	Oct. 30	83.0	82.4	
S-Shobonier	Fayette	Henry Opfer	. 60	May 18	Nov. 18	26.2	25.1	
		Elmer and Robert Hortin		May 22	Nov. 12	75.3	74.5	
SW-Modoc	Randolph	Bernard Naeger	. 60	May 9	Oct. 17	69.0	68.5	

unleached compact glacial till was variable. The south half of the testing field at Shobonier was a "slick spot."

The approximate location of the twelve test fields is shown by the map on page 177. General information on soil characteristics and soil-management practices is indicated in Table 2.1

METHOD OF PLANTING

In order that the trials might be carried on under actual farm conditions, the test plots were located within a larger cornfield. The test plot was planted by hand on the day the rest of the field was planted. The rows of the test plot were joined with those of the surrounding corn so they could be cultivated with the rest of the field.

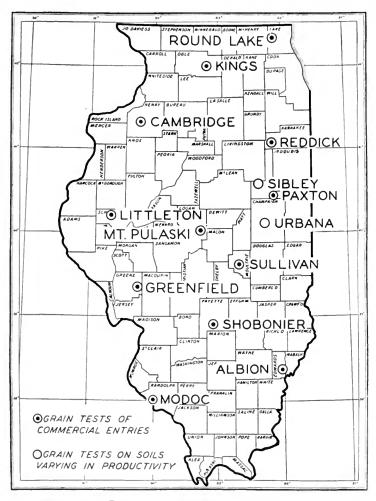
On all but the Modoc field each entry (variety or hybrid) was planted in 10 plots, each plot being 12 hills long and 2 rows wide. At

¹Herman Wascher, Assistant Chief in the Soil Survey, determined the soil type, uniformity, and physical characteristics of each field. H. J. Snider, Assistant Chief in Soil Experiment Fields, made the chemical analyses.

Modoc 30 of the 60 entries were planted in 8 plots and 30 were planted in 7 plots.

All plots were planted 3 kernels to a hill, and the only correction made for imperfect stand was to adjust the yields for missing hills. All seed was treated with organic mercury dust before planting.

Entries were arranged in controlled random order. With the



Location of 1940 test fields

Twelve fields, distributed so as to represent the more important climatic areas of the state, were used in the 1940 general-performance tests; two others, Sibley and Urbana, were used for soil-adaptability tests. All these fields were, on the whole, medium to high in productivity.

Table 2.—TESTING FIELDS: Soil Characteristics and Management Practices

	ьн	Organia	Total	Nitrot-	Available	Available	
a—Surface color and drainage b—Subsoil texture, and underdrainage	pH values Surface	Organic matter Surface	nitrogen Surface		phosphorus Surface		Previous crops and soil management
			Northeast	ern			
Round Lake—Drummer silty clay loam (ten a—Black, moderately slowb—Silty clay loam, moderate	tative) 7.8	perct. 8.92	lbs. 9400	lbs. 45	lbs. 60	lbs. 300	Oats 1937, corn 1938, so 1939; manured 1939. plowed.
			Norther	n			•
Kings—Tama silt loam a—Light brown, moderately rapid b—Silty clay loam, moderate	5.0	4.66	4600	70	40	300	Soybeans (hay) 1937, corr oats (sweet clover) limed 1939, manured Spring plowed.
		V	Vest north-	entral			
Cambridge—Muscatine silt loam a—Brown, moderate b—Silty clay loam, moderate	4.8	6.01	5920	140	45	530	Oats 1937, red clover 1936 1939; manured 1938.
		F	last north-c	entral			•
Reddick—Rensselaer loam (tentative) a—Dark brown, moderate b—Clay loam, moderate	8.0	5.15	5760	50	75	185	Corn 1937, oats 1938, clover and alfalfa p 1939; limed 1938, rock phate 1938. Fall ploy
			West-cent	ral			
Littleton—I pawa silty clay loam to clay load a—Black, moderately slow to slow b—Clay loam, moderate	m 5.0	3.98	4200	30	190	350	Wheat 1937, mammoth 1938, corn 1939; limed Spring plowed.
			Central	l			
Mt. Pulaski—Sable silty clay a—Black, slow b—Silty clay, moderate	5.2	4.82	5400	20	220	300	Wheat 1937, red clover corn 1939. Spring pl
			East-cent	ral			
Paxton—Elliott clay loam a—Black, slow b—Clay loam, moderately slow	5.4	4.90	5280	30	50	370	Oats 1937, aweet-clover red-clover pasture 1938 1939; manured 1938. plowed.
		E	ast south-c	entral			•
Sullivan—Flanagan silt loam (light) a—Brown to light brown, moderate b—Silty clay loam, moderate	5.8	3.90	4280	60	18	250	Sweet-clover and timoth ture 1937, 1938, corn limed 1938. Fall ploy
		N	est aouth-c	entral			
Greenfield—I pava silt loam (tentative) a—Brown, moderate b—Silty clay, moderate	5.0	4.21	4000	80	300	260	Alfalfa 1936, 1937, 1938 1939; manured 1939, limed 1928, 1935, rock phate 1940. Spring pl
			Southern	n			
Shobonier—Ciene silt loam (slick spots) a—Gray, alow. b—Clay, very slow.	5.0	2.28	2360	16	40	70	Oats 1937, corn 1938, 1939; limed 1932. Splowed.
			Southeaste	ern			
Albion—Patton silty clay loam (light) a—Brownish gray, slow b—Silty clay loam, moderately slow.	5.2	3.82	4000	30	130	300	Corn 1937, wheat 1938, clover 1939. Fall plow
			Southwest	ern			
Modoc—Beaucoup clay loam, bottom a—Drab, moderately slow b—Clay loam, moderately slow	6.6	3.10	3000	40	520	750	Corn 1937, wheat 1938 clover and sweet clover Fall plowed.

Soil samples collected June 3, 4, 6, and 7, 1940.

few exceptions indicated in the tables of results, all plots of each entry were harvested.

SEASONAL CONDITIONS

Growing conditions in 1940 were more favorable at Round Lake in northeastern Illinois and at Kings in northern Illinois than on any of the other corn-performance fields.

Temperatures during May were a little below average, but during the rest of the year temperatures were favorable for corn. An abundance of rain in the northern part resulted in good corn yields and caused the grain to carry a relatively high amount of moisture at harvest. Grain samples were taken on the Kings and Round Lake fields on October 8 and 9 respectively in order to determine the condition of the corn about a week after the first killing frost.

The Cambridge field in west north-central Illinois received about the right amount of rainfall until the last half of August and all of September, when lack of moisture caused considerable injury. The Reddick field in the east north-central section became dry even earlier, and some firing of the lower leaves resulted.

With the exception of the fields at the northern end of the state, the best distribution of rainfall occurred on the Littleton field. The corn on the Mt. Pulaski field in central Illinois and on the Paxton field in the east-central area, which started off nicely, was injured considerably by drouth during the first half of August.

The potential yield of the field at Greenfield was greatly reduced by lack of moisture from mid-June to the second week in August. The hybrids that matured late were even more severely injured than those that matured early. The Sullivan field withstood the drouth; by the middle of September signs of moisture shortage were clearly evident, but yields were not greatly reduced.

The Shobonier field in southern Illinois suffered greatly from early drouth. The plants were so badly stunted that they were not able to recover after the rains of mid-August. A deficiency of potassium and perhaps also of nitrates aggravated the situation on this field.

The Albion field in southeastern Illinois also suffered from early drouth, and leaf firing appeared early. The amount of firing was more than normal, and may have been caused by close planting since the hills were only 3 feet apart each way. In spite of an evident moisture deficiency during a large part of the growing season, the yields from the Albion field were good.

At Modoc in southwestern Illinois there was enough moisture during most of the season to keep the corn growing vigorously. Silking and tasseling occurred earlier at Modoc than at any of the other corn-performance fields.

INSECT PROBLEMS

[January,

The season of 1940 presented several insect hazards for corn. The first to attract attention was the attack of the seed-corn maggot, Hylemyia cilicrura Rond. This insect, always present in Illinois, damages corn seed when the corn lies ungerminated in the soil or when it germinates very slowly. The cold wet ground at planting time in 1940 delayed the germination of the seed and a great deal of damage resulted. Many farmers found it necessary to replant their fields. It is possible that factors other than the cold wet ground may have been partly responsible for the slow germination and for the consequent losses that were incurred from the seed maggot attack. There was no conclusive evidence that some hybrids are more susceptible than others to damage by the seed-corn maggot, altho hybrids that germinate slowly are probably more susceptible. The performance fields were not seriously affected.

The grape colaspis, *Colaspis brunnea* (F.) was present in great abundance in many Illinois cornfields where corn followed clover, soybeans, and lespedeza. In some places soybean stands were reduced as much as 50 percent, and many fields of corn had to be replanted because of an attack by this insect. There was, however, no particular evidence of the grape colaspis on the performance fields.

There was a threat of chinch bugs, Blissus leucopterus (Say), in the early part of the season but they caused very limited damage. They did not affect the performance fields to any considerable extent.

The test fields at Cambridge and Albion were affected to a measureable extent by corn rootworms. The average amount of lodging of hybrids on these two fields was 40.9 and 35.7 percent respectively. (Plants are considered lodged when they lean 30 degrees or more from the perpendicular, this leaning extending to and including the roots.) Examination of other performance fields showed that rootworm damage occurred, but environmental conditions were such that no lodging resulted. Two rootworms, the corn rootworm, Diabrotica longicornis (Say), and the southern corn rootworm, Diabrotica duodecimpunctata (Fab), were present and contributed to root damage which resulted in the ultimate damage recorded.

DISEASE PREVALENCE

Smut and ear rots were the principal diseases attacking Illinois cornfields in 1940. Only traces of Stewart's disease were seen. Diplodia stalk rot developed only moderately and came too late in the season to decrease yields, but it was no doubt a factor in late-season stalk breaking. There was much lodging from stalk breaking that was not caused by disease, so far as could be ascertained; the

healthy tissues of many of the varieties and hybrids were softer than usual, so that the stalks kinked and fell over easily. Some of the crosses carrying inbred L317 were especially weak in this respect.

Smut. About 4 percent of the 1940 corn crop in Illinois was lost because of smut, as estimated by the authors and by the Illinois State Natural History Survey. This is about twice the average loss. Most of the smut galls in 1940 were located at the ear or at nodes below the ear. Smut above the ear and in the tassel was rare.

Analysis of 1940 data on smut occurrence in single crosses in two fields at Urbana and one at Wyoming showed a negative correlation between smut and yield in each case. This agrees with data obtained by M. T. Jenkins on crosses in Iowa some years ago, and means that in general in years of severe smut occurrence the greater the prevalence of smut in a cross the lower the yield. Of the inbreds that made up these single crosses, 38-11 was the worst in introducing smut-susceptibility, and was followed by WF9, P8, 187-2, and Pr. Among the more resistant inbreds were L317, K4, Kys, 5120, R4, and 28. It is possible that under different growing conditions these rankings might be changed somewhat.

Ear rots. The average kernel damage from rot on all twelve of the corn-performance test fields in 1940 was 2.57 percent; in 1939 it



Smut caused serious reduction in corn yields in 1940

This disease occurred most commonly at nodes below the ear (left) and on the ear (right). Often the entire ear was converted to smut.

was only 1.68 percent for all fields. This increase was due for the most part to the large amount of ear rot in the two northern fields located at Kings and Round Lake. This area received considerable rain in the late summer, whereas rainfall in most of the remainder of the state was below average during that time.

Diplodia was the principal cause of ear rot in the northern end of the state, where ear rot was most severe. In the remainder of the

state Fusarium rot appeared to be the most prevalent.

No advance toward better ear-rot resistance appears to have been made in most of the hybrids that are now in general commercial production. Altho observations have appeared in print stating that the quality of corn has been better during the last few years because more hybrid corn is being grown, the data from the performance tests do not altogether support this view. Either five or six entries of openpollinated corn were included on each of the twelve performance fields. When the percentage of damaged kernels was averaged separately for all the open-pollinated entries and for all the hybrid entries, the hybrids averaged higher in ear-rot damage on 7 fields, the open-pollinated were higher on 4 fields, and the two were equal on the twelfth field.

Some individual hybrids, of course, have much greater resistance to ear rots than others; the two-, three-, four- and five-year summaries give more reliable data for comparing individual hybrids than do the one-year tables.

MEASURING PERFORMANCE OF ENTRIES

The entries in 1940 were rated, as they were each year since 1935, on the basis of two measures of performance—erect plants at harvest (lodging resistance) and yield of sound corn.

Erect plants. The percentage of erect plants in each entry on each field was estimated at the time of harvest. The *rating* for erect plants of an entry is the ratio of erect plants of that entry to the average number of erect plants on the field, multiplied by 100.

There were three types of lodging on the test fields—that due to rootworm damage, to broken stalks just below the ear, and to broken stalks toward the base of the plant.

Sound corn. To determine shelling percentage, the entire yield from one replicate of each entry was shelled. From this shelled corn one sample was taken to determine the percentage of moisture at harvest, and another to determine the percentage of damaged kernels, by weight. The moisture determinations were made with a Tag-Heppenstall moisture meter. The percentage of damaged corn was determined according to the federal grain standards.

The total acre-yield was calculated as shelled corn carrying 15.5 percent moisture, the upper limit allowable for No. 2 corn. The yield of sound corn was computed by deducting the amount of damaged corn from the total yield.

The rating on sound yield is the ratio, expressed as percentage, of the yield of sound corn for that entry to the average yield of sound corn for all the entries on the field.

General performance. In computing the general-performance rating of an entry, the ratings for erect plants and sound corn were averaged, but the sound-corn rating was given three times the weight of the rating for erect plants. When two or more entries tied in the general-performance rating, the ties were given the same numerical ranking, but they were listed in the order of their descending yield of sound corn. If the two entries had the same yield of sound corn, then they were listed on the basis of total corn.

Chance differences. Too much confidence must not be placed in the exact ranking of a hybrid in the following tables, for chance has played a part in determining the placing of many of them. Unmeasured differences in soil and in prevalence of insects and diseases, and unaccountable variability in stand will cause differences in yield that are not inherent in the hybrids or varieties.

The part played by chance in the 1940 tests has been calculated by the mathematical procedure known as "analysis of variance." At the bottom or side of each table is stated the approximate difference which there must be in the 1940 yields to show a true inherent difference between any two entries. Unless this difference exists there is no assurance that one entry is inherently higher yielding than the other.

Readers are urged to note the difference necessary for significance, as shown for each test field, and to keep that difference constantly in mind in all comparisons of entries on that field.

DISCUSSION OF 1940 TEST

The results of the 1940 corn-performance test brought out some marked differences in hybrids. The year 1940 was not so favorable for corn production as were 1937, 1938, and 1939. In order to perform as consistently as they did, hybrids had to exhibit more resistance to drouth, wind, disease, and insects than in the three years previous. Because of the wind on November 11, the lodging resistance on the Round Lake and Albion fields was important in determining the general-performance rating of the entries on these fields; and in general the entries with the greatest number of standing stalks ranked near the top. Usually the lodging of the hybrids was due to stalk breaking; the open-pollinated varieties went down because of root weaknesses.

Superiority of hybrids. Hybrids were definitely superior to the open-pollinated varieties on all of the fields in the 1940 test. On the Kings, Cambridge, Paxton, and Greenfield test fields the 5 best hybrids exceeded by over 37 bushels an acre the sound yield of the 5 open-pollinated varieties. With the exception of the Littleton field, the 5 poorest hybrids on every field were superior in sound yield to the average of the 5 open-pollinated varieties on the same field. The 5 best hybrids and the 5 poorest hybrids had greater lodging resistance than the average of the 5 open-pollinated varieties on every test field except Round Lake and Albion. On these two fields the 5 poorest hybrids did not stand as well as the open-pollinated varieties. For a complete comparison of the 5 best hybrids and the 5 poorest hybrids with the open-pollinated varieties see Table 3.

With few exceptions the white hybrids that were entered in the test were inferior to the yellow hybrids. Much of the poor performance of the white hybrids was due to the large number of barren stalks. Barrenness also contributed to the poor performance of many of the yellow hybrids but it was not as marked in them as in the white hybrids. Barrenness was the greatest single cause of yield differences on the Paxton field.

Maturity. This year's test was the first in several years in which moisture content at harvest was an indication of maturity. The Round Lake and Kings fields were particularly high in moisture, considering the lateness of harvest.

In order to obtain a better indication of the maturity of the entries on the Kings and Round Lake fields, samples were taken from these fields on October 8 and October 9 respectively. One hill containing at least two plants was harvested from each of four replications. Two

Table 3.—Average of Yields of Five Best Hybrids and Five Poorest Hybrids Compared With Open-Pollinated Varieties: 1940 Test Fields

			Sound y	ield			Lod	ging resi	istance	4
Field	Five best hybrids	Five poorest hybrids	Five open- polli- nated var.	Superior- ity of 5 best hybrids over o.p.	Superior- ity of 5 poorest hybrids over o.p.	Five best bybrids	Five poorest hybrids	Five open- polli- nated var.	Superior- ity of 5 best hybrids over o.p.	Superior- ity of 5 poorest hybrids over o.p.
	bu.	bu.	bu.	bu.	bu.	perci.	perct.	perct.	perct.	perct.
Round Lake	77.4	68.6	58.8	18.6	9.8	51.2	8.0	14.0	37.2	-6.0
Kings	106.8	78.7	56.4	50.4	22.3	97.6	97.8	80.0	17.6	17.8
Cambridge	97.5	72.1	59.6	37.9	12.5	95.8	94.4	76.8	19.0	17.6
Reddick		65.4	61.0	26.8	4.4	98.4	97.0	89.4	9.0	7.6
Littleton	91.8	72.2	74.5	17.3	-2.3	99.6	100.0	96.4	3.2	3.6
Mt. Pulaski		54.3	53.8	16.7	.5	94.4	88.0	83.2	11.2	4.8
Paxton	70.7	31.8	29.9	40.8	1.9	95.8	89.4	70.8	25.0	18.6
Sullivan		59.2	54.8	25.7	4.4	99.6	98.8	97.0	2.6	1.8
Greenfield		70.1	56.9	42.6	13.2	99.0	98.2	92.4	6.6	5.8
Shobonier	29.6	21.6	21.2	8.4	.4	78.6	79.4	69.6	9.0	9.8
Albion	81.7	70.5	58.0*	23.7	12.5	43.0	19.6	28.0°	15.0	-8.4
Modoc	74.9	59.6	55.1	19.8	4.5	90.6	88.8	85.6	5.0	3.2
Average	80.7	60.3	53.3	27.4	7.1	87.0	72.4	73.6	13.4	7.1

^{*}Average of 6 open-pollinated varieties instead of 5.

complete rows of kernels were removed from every ear harvested to obtain a sample for moisture. The percentage of moisture was obtained by drying 200 grams of the sample in an electric oven for 48 hours.

At Round Lake the moisture content of the samples ranged from 40.2 percent to 25.7 percent (Table 4) on October 9. The average for the 5 adapted open-pollinated varieties was 32.5 percent; and 14 hybrid entries had the same or a lower percentage of moisture. The average for the entire field on October 9 was 33.9 percent, and at harvest (November 15) it was 21.8 percent. The average of the open-pollinated varieties at harvest time was 23.2 percent; and 42 hybrid entries had the same or a lower percentage. The moisture content of the hybrids at harvest time ranged from 28.5 percent to 17.6 percent.

The above data from the Round Lake field indicate that after an early killing frost most hybrids dry out faster than the open-pollinated varieties. In general the hybrids which had the higher percentage of moisture on October 9 had the higher percentage at harvest, and the hybrids with the lower percentage of moisture on October 9 had the least moisture when harvested.

At Kings (Table 6) the situation was much the same as at Round Lake. The moisture content of the grain decreased more rapidly in most of the hybrids than in the open-pollinated varieties. On October 8 the percentage of moisture for all entries on the field ranged from 39.3 percent to 28.0 percent, while at harvest time it ranged from 27.3 percent to 19.6 percent. Eleven hybrids had the same or a lower moisture content than the average of the open-pollinated varieties on October 8; at harvest time 31 hybrids had the same or a lower percentage of moisture than the open-pollinated varieties.

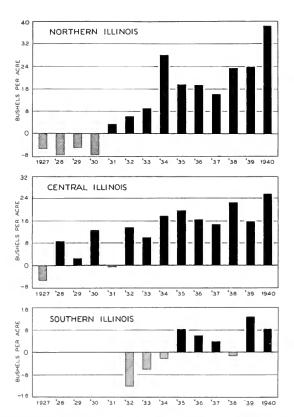
Dropped ears. A count was made of the dropped ears on all of the 1940 test fields, but there were too few such ears to warrant the drawing of any conclusions.

FIVE-, FOUR-, THREE-, AND TWO-YEAR SUMMARIES

A mistake to which all who are interested in hybrid corn are more or less prone is to evaluate a new entry on the results of a single year's test. No two seasons are exactly alike and a corn which does exceptionally well one year may perform quite differently under different seasonal conditions. Manifestly then, the more seasons during which a corn has been tested, the more certain a grower can be of its merit. For this reason summary tables including entries that have been in the tests for five to two years have been prepared.

Not many hybrids have been grown in these tests for as long as five years because most of the hybrids tested five years ago have been discontinued. A hybrid that ranks well toward the top in the various summary tables and also shows a good performance in the current year's test is most assuredly a good one. The consistency of the general performance of an entry can be readily traced by studying the summary tables for each section of the state.

A good measure of the superiority of an entry is the amount by which it has exceeded the average of the open-pollinated varieties. If the hybrid exceeded the average of the varieties markedly year after year, it is to be preferred to hybrids with widely fluctuating seasonal yields even tho the average yield of the fluctuating hybrids may be somewhat higher.



Differences between yields of hybrids and open-pollinated varieties 1927-1940

The above bars show the amounts by which the yields of the five best hybrids have exceeded (black) or have fallen below (crosshatch) the five best open-pollinated varieties in three sections of Illinois.

PEDIGREES OF ILLINOIS AND U.S. HYBRIDS

Following is a partial list of Illinois and U. S. hybrids. The performance of those that are starred is shown in this bulletin.

```
Ill. 504... (WF9 x L317) (R4 x Hy)
Ill. 507... (A x 90) (WF9 x R4)
Ill. 511... (A x 90) (R4 x L317)
Ill. 521... (A x 90) (WF9 x 4226)
Ill. 523... (A x 90) (WF9 x 4226)
Ill. 538... (5120 x 4211) (R4 x Tr)
Ill. 543... (90 x Hy) (R4 x Tr)
*Ill. 546... (WF9 x Hy) (R4 x Tr)
*Ill. 566... (187-2 x Hy) (K4 x L317)
Ill. 570... (A x 90) (Hy x 540)
Ill. 571... (Tr x 90) (Hy x 540)
Ill. 582... (R4 x L317) (Hy x 540)
*Ill. 586... (4226 x A) (Hy x 540)
*Ill. 586... (4226 x A) (Hy x 540)
*Ill. 600... (187-2 x 38-11) (159L1 x L317)
Ill. 606... (R4 x Hy) (N14 x 5120)
Ill. 614... (701 x L317) (5120 x Tr)
Ill. 710... (R4 x Hy) (Tr x L317)
Ill. 713... (WF9 x 38-11) (G x L317)
*Ill. 751... (A x 90) (WF9 x Hy)
Ill. 762... (A x Hy) (R4 x L317)
*Ill. 772... (R4 x Hy) (I159 x L317)
*Ill. 784... (Hy x 5120) (K4 x L317)
*Ill. 800... (5678 x Kys) (K4 x L317)
*Ill. 801... (5120 x Kys) (K4 x L317)
*Ill. 802... (38-11 x 5678) (K4 x L317)
*Ill. 805... (187-2 x 38-11) (K4 x L317)
*Ill. 806... (38-11 x 187-2) (K4 x Kys)
Ill. 832... (R4 x Hy) (38-11 x 1198)
*Ill. 838... (38-11 x 187-2) (K4 x Kys)
Ill. 845... (WF9 x CC1) (Pr x 1205)
Ill. 846... (A x 90) (Pr x 1205)
Ill. 855... (R4 x Hy) (K4 x L317)
*Ill. 867... (R4 x Pr) (K4 x L317)
*Ill. 8885A... (R4 x 38-11) (K4 x L317)
*Ill. 887... (R4 x Pr) (K4 x L317)
*Ill. 8885A... (R4 x 38-11) (K4 x L317)
*Ill. 8855... (R4 x Hy) (190 x L317)
Ill. 940... (5120 x 4211) (I159 x L317)
Ill. 940... (5120 x 4211) (I159 x L317)
                III. 15....(WF9 x 38-11) (159L1 x I224)
*III. 21....(WF9 x 38-11) (187-2 x Hy)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       III. 504... (WF9 x L317) (R4 x Hy)
         *III. 21... (WF9 x 38-11) (187-2 x Hy)
III. 29... (A x 90) (R4 x Hy)
III. 48... (R4 x L317) (Hy x 4211)
III. 53... (WF9 x M14) (Pr x I205)
III. 99... (CC5 x CC7) (WF9 x CC1)
*III. 101... (WF9 x M14) (CC7 x 187-2)
III. 104... (CC5 x CC7) (A x Hy)
III. 107... (1198 x 38-11) (Tr x L317)
III. 110... (38-11 x Kys) (Tr x L317)
III. 115... (5120 x Kys) (Tr x L317)
III. 117... (K4 x 38-11) (Tr x L317)
*III. 126... (WF9 x 38-11) (Tr x L317)
III. 153... (WF9 x 84) (159L1 x I224)
III. 161... (WF9 x 38-11) (Tr x R4)
III. 161... (WF9 x 38-11) (Tr x R4)
III. 172... (R4 x Hy) (A x 540)
      Ill. 161... (WF9 x 38-11) (Tr x R4)
Ill. 172... (R4 x Hy) (A x 540)
*Ill. 200... (WF9 x 38-11) (K4 x L317)
*Ill. 201... (WF9 x 38-11) (187-2 x L317)
Ill. 205... (WF9 x 38-11) (159L1 x L317)
*Ill. 206... (WF9 x 38-11) (5120 x L317)
Ill. 208... (B2 x 38-11) (K4 x L317)
*Ill. 212... (WF9 x 38-11) (4-8 x 187-2)
Ill. 215... (5120 x 38-11) (187-2 x L317)
*Ill. 219... (CC5 x CC7) (WF9 x Hy)
Ill. 224... (Pr x 1205) (M14 x 90)
Ill. 227... (WF9 x 38-11) (Hy x Tr)
Ill. 236... (Os420 x Os426) (WF9 x L317)
Ill. 240... (WF9 x K4) (Hy x 5120)
III. 227... (WF9 x 38-11) (Hy x Tr)
III. 236... (Os420 x Os426) (WF9 x L31
III. 240... (WF9 x K4) (Hy x 5120)
III. 243... (Kys x 5677) (K4 x L317)
*III. 246... (WF9 x Hy) (187-2 x L317)
*III. 247... (187-2 x 38-11) (Hy x L317)
III. 308... (WF9 x M14) (4-8 x 187-2)
III. 310... (4-8 x 187-2) (Pr x 1205)
III. 319... (WF9 x M14) (A x 90)
III. 329... (WF9 x 38-11) (Pr x 1205)
III. 337... (A x 90) (187-2 x L317)
*III. 339... (CC5 x CC7) (A x 90)
III. 335... (Pr x 1205) (WF9 x R4)
*III. 350... (WF9 x R4) (187-2 x L317)
III. 355... (Pr x 1205) (R4 x Hy)
*III. 374... (R4 x Hy) (187-2 x L317)
III. 384... (WF9 x R4) (A x Hy)
III. 391... (A x Hy) (Tr x L317)
III. 437... (F120 x L317) (Hy x 540)
III. 437... (F120 x L317) (Hy x 540)
III. 437... (Hy x WF9) (K4 x L317)
*III. 448... (38-11 x Kys) (K4 x L317)
*III. 450... (R4 x Kys) (K4 x L317)
*III. 450... (R4 x Kys) (K4 x L317)
*III. 450... (R4 x Kys) (K4 x L317)
*III. 498... (5120 x 4211) (701 x L317)
III. 499... (Hy x 5120) (R4 x Kys)
III. 498... (5120 x 4211) (701 x L317)
III. 500... (WF9 x 38-11) (T01 x L317)
III. 500... (WF9 x 38-11) (Hy x 5120)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         *III. 885A.. (R4 x 18-11) (K4 x L317)
III. 936... (A x Hy) (90 x L317)
III. 940... (5120 x 4211) (I159 x L317)
III. 940... (R4 x L317) (WF9 x Hy)
III. 945... (WF9 x R4) (Tr x L317)
*III. 945... (WF9 x R4) (Tr x L317)
*III. 960... (R4 x Hy) (701 x L317)
*III. 972... (WF9 x Hy) (701 x L317)
*III. 976... (WF9 x R4) (Hy x 540)
III. 1073... (R4 x L317) (5120 x Hy)
III. 1075... (4-8 x Hy) (R4 x L317)
*III. 1092... (A x 90) (WF9 x CC1)
*U. S. 5... (R4 x L317) (WF9 x 38-11)
*U. S. 13... (Hy x L317) (WF9 x 38-11)
*U. S. 14... (Hy x L317) (WF9 x R4)
*U. S. 35... (WF9 x 38-11) (R4 x Hy)
*U. S. 44... (187-2 x 4-8) (Hy x 540)
*U. S. 45... (461-3 x 4-8) (Hy x 540)
*U. S. 63... (R4 x WF9) (Hy x 540)
*U. S. 63... (R4 x WF9) (Hy x 540)
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CONTRIBUTORS OF SEED FOR THE 1940 TESTS

CONTINIDOTORIO C.	DEED TON THE IS	0 12010
Bear Hybrids		
Blackhawk	Otto Kreutzberg	. Alhambra
Bunning White Dent	Henry Bunning	. Moweagua
Canterbury Yellow Dent	C. E. Canterbury	Cantrall
Champion White Pearl	F V Wilson & Son	Edgewood
Crow Hybrids	Crow Hybrid Corn Co	Milford
DeKalb Hybrids	Do Kalb Acm Acces	DeVelle
Delaio Hybrids	DeNaid Agr. Assoc	. Dekaib
Doubet Yellow Dent	.E. W. Doubet	. Hanna City
E. W. Doubet Hybrids	.E. W. Doubet	. Hanna City
Dyar Hybrid D44RFunk Hybrids	.W. S. Dyar	. Metamora
Funk Hybrids	.Funk Bros, Seed Co	. Bloomington
Furr Hybrids	. Kenneth Furr	. Genoa
Fritsch Bros. Hybrid 731	Fritsch Bros	. Plano
Gunn Western Plowman	. DeKalb Agr. Assoc	. DeKalb
Hahn Hybrid 150A	Hahn Seed Co.	Dwight
Henley and Whisnand Hybrids	T Henley M Whisnand	Arcola
Henley and Whisnand Hybrids Holmes Utility Hybrids	Charles Holmes	Edoletoin
Hoosier Creek Unbride	Coorgo Morabell	St Charles
Hoosier Crost Hybrids	I A IIL. P. C.	Man dalain
Huebsch-Murdock	.L. A. Huebsch & Son	. Mundelein
Hulting Hybrids	.G. E. Hulting & Son	. Geneseo
Hunt White Dent	. Chester A. Hunt	. Morris
I.H.P. Hybrids	Ind. Hyb. Prod. of Ill., Inc	. Pekin
Illinois Hybrid 21	.W. S. Dyar	. Metamora
Illinois Hybrid 21	.Frey Hybrid Corn Co	. Gilman
Illinois Hybrid 21	Huev Seed Co	Carthage
Illinois Hybrids 101, 246, 247, 350, 437, 600, 800, 801, 802, 804, 838.	•	9
437, 600, 800, 801, 802, 804, 838,	Ind. Hyb. Prod. of Ill., Inc.,	. Pekin
Illinois Hybrid 126	Harold Oakes	Bluffs
Illinois Hyb 200 247 449 784 863	C F Canterbury	Cantrall
Illinois Hybrid 126	Castle Hybrid Corn Co	Alton
Illinois Hybrids 200, 448, 784, 877	Edwin Dallmier	Newton
Illinois Hybrids 200, 410, 704, 077	Macon County Soed Co	Decatur
Illinois Hybrids 200, 201, 374 Illinois Hybrid 200	Manual County Seed Co	. Decatul
Illinois Hybrids 200, 448, 784, 804,	. Mountjoy Seed Co	. Atlanta
11111015 HYDHUS 200, 440, 704, 604,	Carrer Dialian	A 1-
863, 877, 885A	. George Pieiier	. Arcola
Illinois Hybrids 200, 448, 450, 784	. Myron Whisnand	. Arcola
Illinois Hybrids 200, 201, 499	.Edward Wilson	. Winchester
Illinois Hybrid 201	. Joe Allen	. Fisher
Illinois Hybrids 201, 206	.C. Doubet & Son	. Hanna City
Illinois Hybrid 201	. Hahn Seed Company	. Dwight
Illinois Hybrids 201, 805, 972	. Charles Holmes	. Edelstein
Illinois Hybrid 201	. Lester L. Lehmann & Sons.	. Pleasant Plains
Illinois Hybrid 201	O. P. Tiemann	. Bloomington
Illinois Hybrids 206, 784, 863, 877	.Burrus Bros	. Arenzville
Illinois Hybrid 206	. I. E. Forsythe	. Cooksville
Illinois Hybrids 206, 806, 885A	Thomas Henley	. Arcola
Illinois Hybrid 206. Illinois Hybrids 206, 806, 885A. Illinois Hybrids 212, 976.	C. Leland Monier	Sparland
Illinois Hybrids 219, 1092	Nichols Bros	Hebron
Illinois Hybrid 247	Herman Lauer	Broadwell
Illinois Hybrid 339	I A Huebsch & Son	Mundelein
Illinois Hybrid 449	Leglie Deily	Matteen
Illinois Hybrid 448	Deal-lineten Dans	Nilwood
Illinois Hybrids 440, 300, 704, 030	Margar Dros	Calva
Illinois Hybrids 450, 546Illinois Hybrid 751	. Morgan bros	Dairector
Illinois Hybrid 751	Contact France Cond Co	. Frinceton
Illinois Hybrid 751	.Gentert Farms Seed Co	. Lostant
Illinois Hybrid 751	.F. A. Joslin	.Erie
Illinois Hybrids 784, 877	. Everett W. Kerns	. I uscoia
Illinois Hybrid 784		
Illinois Hybrid 885A	. Nickell Bros	. Concord
Illinois Hybrid 947	. Harry Koch	. Bluffs
Illinois Hybrid 960	.L. A. Sass	. Ancona
Illinois Hybrid 947. Illinois Hybrid 960. Ioway Supercorn.	. Koland Holden	. Williamsburg, Ia.

Iowealth Hybrids	. Michael-Leonard Seed Co	. Chicago
Kelly Hybrid	Kelly Seed Co.	San Tose
Krug	. Krug Bros	. Minonk
Leaming	. H. C. Neville	. Harrisburg
Macon Hybrid 666	. Macon County Seed Co	. Decatur
Maland Yellow Dent	. John Maland	. Leland
McLurkin White Dent	. Theodore Brown	. Coulterville
Miller Hybrids	Bert A. Miller	. Forrest
M-L Hybrids	.B. E. Moews	. Granville
= 11,011401111111111111111111111111111111	L. L. Lowe	. Aroma Park
Mohawk	Martin Schaeffer	. Hoyleton
Morgan Hybrids	Morgan Bros	(falva
Mountjoy Hybrid 2121	. Mountiov Seed Co	. Atlanta
Mountioy Utility Dent	Mountion Seed Co	. Atlanta
National Hybrids	National Hybrid Corn Co.	. Anamosa, Iowa
Null Hybrids	Null Seed Farms	. Colchester
Null-Vollmer Hybrids	. L. H. Vollmer	. Liberty
Pfeifer Hybrid A-1-40	.George Pfeifer	. Arcola
Pfingston Yellow Dent	Fred Pfingston	. Roselle
Pioneer Hi-Breds	Pioneer Hi-Bred Corn Co.	Princeton
Rice White Dent	I. R. Rice	.Blue Mound
Richbred Hybrids	.F. D. Richev	Ashville, Ohio
Roeschley Vellow Dent	Leo Roeschlev	.Graymont
Sager Hybrid 33W	Trov Sager	. Kell
Roeschley Yellow Dent. Sager Hybrid 33W. Sass Hybrids.	L. A. Sass. Ancona: U. G.	Sass. Streator
Seeher Hybrids	Seeber Bros	Champaign
Seeber Hybrids. Shuman Golden Beauty. Sibley Farm Hybrids.	Charles Shuman	Sullivan
Sibley Farm Hybrids	Sibley Farms	Sibley
Silver Cross Hybrid W12	Michael-Leonard Seed Co.	Chicago
Sommer Vellow Dent	George Pfeifer	Arcola
Sommer Yellow Dent	F. H. Isenhero	Kauffman
Station Yellow Dent	Illinois Station	Urbana
Stelford's White Can	H I Stelford	Hampshire
Stelford's White CapStewart Hybrid S22	Frank S. Stewart	Princeville
Stiegelmeier Hybrids	H. L. Stiegelmeier	Normal
U. S. Hybrid 5	G. E. Hulting & Son	Geneseo
U. S. Hybrids 5, 15	Mountion Seed Co	. Atlanta
U. S. Hybrid 5	Harold Oakes	Bluffs
U. S. Hybrid 5	. Producers' Crop Imp. Assoc.	Piper City
U. S. Hybrid 5	Frank S. Stewart	. Princeville
U. S. Hybrids 13, 35	. Burrus Bros	. Arenzville
U. S. Hybrid 13. U. S. Hybrid 13. U. S. Hybrids 13, 44.	.C. E. Canterbury	. Cantrall
U. S. Hybrid 13	.C. Doubet & Son	. Hanna City
U. S. Hybrids 13, 44	Frey Hybrid Corn Co	.Gilman
U. S. Hybrid 13	. Charles Holmes	. Edelstein
U. S. Hybrids 13, 35	. Huev Seed Co	. Carthage
U. S. Hybrid 13	. Lester L. Lehmann & Son.	. Pleasant Plains
U. S. Hybrid 13	. C. Leland Monier	. Sparland
U. S. Hybrid 13.	Pocklington Bros	. Nilwood
U. S. Hybrids 13, 44	.O. P. Tiemann	. Bloomington
U. S. Hybrid 13	. Van Horn Seed Co	. Cerro Gordo
II S Hybrids 14 35 44 63	H H Ferris	Princeton
U. S. Hybrid 35	. Joe Allen	. Fisher
U. S. Hybrids 35, 44	. I. L. & A. G. Sieben	. Geneseo
U. S. Hybrid 44	Gentert Farms Seed Co	Lostant
U. S. Hybrid 44	Morgan Bros	Galva
U. S. Hybrid 45	. L. A. Sass	. Ancona
U. S. Hybrid 63	Carl Munson	. Galesburg
Van Horn Hybrids	. Van Horn Seed Co	. Cerro Gordo
Waddell Utility Dents	. Elmer Waddell	. Taylorville
U. S. Hybrid 63 Van Horn Hybrids. Waddell Utility Dents. Wessbecker Yellow Dent.	. Paul Wessbecker	. Mt. Pulaski
Wilson Yellow Dent	. Edward Wilson	. Winchester
Wisconsin Hybrid 645	.L. A. Huebsch & Son	. Mundelein

Table 4.—NORTHEASTERN ILLINOIS: Round Lake

Dank	Pater	Acre	-yield	Damaged	Mois-	Mois- ture in	Frant	R	ating for	_
Rank	Entry	Total	Sound	- corn in shelled sample	grain on Oct. 9	grain at harvest (Nov. 15)	plants	Erect plants	Sound yield	General
	1940	bu.	bu.	perci.	perci.	perct.	perct.	perct.	perct.	
1 *	Funk Hybrid G-16	85.5	85.3	.26	35.8	22.0	53	200.0	118.3	138.7
	Pioneer Hi-Bred 330	76.3	75.4	1.15	35.9	23.6	57	215.1	104.6	132.2
	Furr Hybrid 67	74.2	73.7	.71	40.0	22.9	53	200.0	102.2	126.6
4.	Funk Hybrid G-114	73.9	72.1	2.43	36.3	23.4	53	200.0	100.0	125.0
5 *	Holmes Utility Hybrid 19 Wisconsin Hybrid 645 (Huebsch)	81.0	$\frac{80.7}{72.0}$.31 4.52	38.6 29.7	21.4	40 39	$150.9 \\ 147.2$	111.9 99.9	121.6 117.1
6	Hoosier Crost Hybrid 405	74 0	70.7	5.59	35.0	23.6	45	169.8	98.1	116.0
8	Iowealth Hybrid 16	76.4	75.9	. 66	39.2	23.6	37	139.6	105.3	113.9
9	Funk Hybrid G-22	73.0	72.3	.99	36.5	23.6	40	150.9	100.3	113.0
10	Pioneer Hi-Bred 353	74.5	72.9	2.16	36.5	20.5	39	147.2	101.1	112.6
11	M-L Hybrid 14 (Moews-Lowe)	72.8	72.6	. 21	37.1	25.1	39	147.2	100.7	112.3
12 *	Funk Hybrid G-174	79.1	72.1	8.82	34.8	21.4	39	147.2	100.0	111.8
13 14	Hoosier Crost Hybrid 422 Funk Hybrid G-7	71.0	70.9 68.0	.10 7.07	$37.5 \\ 33.0$	21.7 20.4	39 42	147.2 158.5	98.3 94.3	110.5 110.4
15	Furr Hybrid 44.	74 6	72.3	3.12	32.3	21.0	37	139.6	100.3	110.1
16	Illinois Hyb. 1092 (Nichols Bros.)	69.8	68.3	2.11	32.9	22.6	40	150.9	94.7	108.8
17 *	Holmes Utility Hybrid 29	77.1	76.6	.63	38.0	24.2	32	120.8	106.2	108.4
17 *	Illinois Hybrid 101 (l.H.P.)	75.8	73.4	3.20	34.0	20.4	34	128.3	101.8	108.4
19	M-L Hybrid 20 (Moews-Lowe)	69.6	68.7	1.31	37.1	20.4	39	147.2	95.3	108.3
20	M-L Hybrid 15 (Moews-Lowe)	79.1	77.2	2.40	38.7	22.9	29	109.4	107.1	107.7
21 *	Furr Hybrid 7. M-L Hybrid 19 (Moews-Lowe)	77.2	76.5	.88	33.8	22.3	29	109.4	106.1	106.9
22 * 23	Iowealth Hybrid A	75 4	74.3 73.8	$\frac{.52}{2.18}$	37.8 34.0	23.8 20.7	31 31	117.0 117.0	103.1 102.4	106.6 106.1
	DeKalb Hybrid 410		71.8	5.82	31.6	20.7	33	124.5	99.6	105.8
	Funk Hybrid G-15	77.1	76.9	.26	34.4	21.4	27	101.8	106.7	105.5
26	Pioneer Hi-Bred 353A	80.8	80.1	.92	31.1	20.0	23	86.8	111.1	105.0
27 *	Nichols Bros. Hybrid N-202	75.8	74.7	1.50	32.7	22.0	28	105.7	103.6	104.1
28 *	DeKalb Experimental Hybrid 21	71.7	70.9	1.08	31.4	19.4	30	113.2	98.3	102.0
29	Furr Hybrid 66	68.8	67.2	2.28	32.7	21.4	33	124.5	93.2	101.0
30 31	Illinois Hyb. 219 (Nichols Bros.) Pioneer Hi-Bred 322	21.0	74.5 80.9	2.80 1.07	$\frac{33.2}{36.3}$	22.0 20.4	26 16	$98.1 \\ 60.4$	$100.3 \\ 112.2$	99.8 99.2
	M-L Hybrid 13 (Moews-Lowe)	81.4	76.2	6.33	32.0	20.7	21	79.2	105.7	99.1
	I.H.P. (4226 x 187-2) (WF9 x CC1)		70.8	. 69	26.6	20.1	27	101.9	98.2	99.1
	National Hybrid 116	70.6	70.3	.40	36.3	21.7	27	101.9	97.5	98.6
35 *	'Illinois Hybrid 350 (I.H.P.)	73.4	73.3	. 14	38.4	23.6	23	86.8	101.7	98.0
36	Pioneer Hi-Bred 355		54.8	14.70	25.7	18.2	43	162.3	76.0	97.6
37	Pioneer Hi-Bred 349		82.2	2.16	34.8	19.8	11	41.5	114.0	95.9
	National Hybrid 1142		70.9 80.9	$\frac{2.02}{1.17}$	34.0 33.9	$\frac{21.0}{20.7}$	23 11	86.8 41.5	$\frac{98.3}{112.2}$	95.4 94.5
	DeKalb Hybrid 404A National Hybrid 1122		73.4	1.56	30.5	19.8	19	71.7	101.8	94.3
41	Pioneer Hi-Bred 324		79.2	.37	33.9	21.0	12	45.3	109.9	93.8
	Bear Hybrid OK-22		79.4	.51	33.8	20.4	11	41.5	110.1	93.0
43	DeKalb Hybrid 493	73.7	72.8	1.25	30.0	20.2	18	67.9	101.0	92.7
44 *	Funk Hybrid G-18	71.2	67.3	5.42	32.5	20.2	24	90.6	93.3	92.6
45	DeKalb Hybrid 240	75.6	71.8	5.04	30.0	19.2	18	67.9	99.6	91.7
40	Hilmois Hybrid 339 (Huebsch)	75.6	72.5	4.07	33.0	20.4 27.5	17	$\frac{64.2}{37.7}$	100.6	91.5
47 48	Hoosier Crost Hybrid 668-L Pioneer Hi-Bred 370		74.9 77.4	.51 .34	$\frac{37.6}{29.3}$	18.7	10 7	26.4	103.9 107.4	87.4 87.2
	Richbred Hybrid 894		70.0	1.20	40.2	28.5	15	56.6	97.1	87.0
	DeKalb Hybrid 204	78.4	76.2	2.77	31.2	21.4	8	30.2	105.7	86.8
51	Iowealth Hybrid 25R	71.7	70.3	1.91	32.9	26.7	13	49.1	97.5	85.4
51	Maland Yellow Dent	71.9	66.6	7.36	32.9	22.3	17	64.2	92.4	85.4
	Illinois Hybrid 972 (Holmes)	67.8	66.8	1.47	38.1	25.4	15	56.6	92.7	83.7
54	DeKalh Hybrid 421	76.5	74.2	3.03	34.1	24.0	6	22.6	102.9	82.8
55	Pfingston Yellow Dent	65.I	64.2	1.33	31.2	23.4	13 3	49.1	89.0	79.0 77.8
	DeKalb Hybrid 400		72.1 59.6	1.86 3.67	28.5 34.5	$\frac{18.9}{20.7}$	15	11.3 56.6	$\frac{100.0}{82.7}$	76.2
	Average of 5 open-pollinated var		58.8	8.63	32.5	23.2	14	52.9	81.6	74.5
58	Huebsch Murdock Yellow Dent	64.1	58.2	9.16	30.0	21.4	12	45.3	80.7	71.8
59	Huebsch Murdock Yellow Dent Silver Cross Hyb. W12 (Iowealth)	61.4	59.8	2.57	27.6	17.6	3	11.3	82.9	65.0
60	Stelford's White Cap	58.1	45.5	21.62	34.0	28.4	13	49.1	63.1	59.6
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^{*}Less than 5 bushels of seed sampled.

A difference of less than 5.6 bushels between total yields of any two entries in this table is not significant.

Table 5.-NORTHEASTERN ILLINOIS: Round Lake Summaries

		Acre	-yield	Damaged corn in	Mois- ture in	Erect	I	Rating for	-
Rank	Entry	Total	Sound	 shelled 	grain at	plants	Erect plants	Sound yield	General perform
	(A) Average yie	ld of e	ntries	grown i	n 1939	and 19	40		
	n w	bu.	bu.	perct.	perct.	perct.	perct.	perct.	
2	Funk Hybrid G-16.	75.4 72.8	75.2 71.8	. 22 1.24	18.8 20.6	76.5 78.0	$126.2 \\ 128.7$	108.8 103.9	113.2 110.1
3	Funk Hybrid G-114	70.4	69.5	1.26	21.1	76.5	126.2	100.6	107.0
4	M-L Hybrid 13 (Moews-Lowe)	78.0	75.4	3.19	19.6	60.5	99.8	109.1	106.8
5	Wisconsin Hybrid 645	72.8 73.4	$71.0 \\ 72.4$	2.40 1.20	17.8 20.6	69.5 64.0	$114.7 \\ 105.6$	$102.8 \\ 104.8$	105.8 105.0
7	M-L Hybrid 15 (Moews-Lowe) DeKalb Hybrid 404A	75.6	75.0	.74	18.4	55.5	91.6	108.5	104.3
8	Funk Hybrid G-15.		72.4	.19	19.4	62.0	102.3	104.8	104.2
10	Pioneer Hi-Bred 322	74.7 71.5	74.0 70.6	.95 1.16	18.4 18.4	57.0 64.5	94.1 106.4	$107.1 \\ 102.2$	103.8 103.2
11	Iowealth Hybrid A Illinois Hybrid 219 (Nichols Bros.)	71.9	70.8	1.52	20.2	63.0	104.0	102.5	102.9
12 13	DeKalb Hybrid 240	74.8	72.9 73.6	2.54	16.5	57.0 54.0	94.1 89.1	105.5	102.6 102.2
14	Pioneer Hi-Bred 349	73 8	73.6	1.37	$\frac{17.3}{17.9}$	52.5	86.6	$106.5 \\ 106.5$	101.5
14	DeKalb Hybrid 421 DeKalb Hybrid 204 Illinois Hybrid 1092 (Nichols Bros.) DeKalb Hybrid 493	74.6	73.4	1.54	19.8	53.0	87.5	106.2	101.5
16 17	DeKalb Hybrid 204	$\frac{72.9}{66.2}$	71.7 65.4	1.51 1.16	$\frac{19.2}{19.8}$	53.5 69.0	$88.3 \\ 113.9$	103.8 94.6	99.9 99.4
18	DeKalb Hybrid 493	70.9	70.4	.80	17.6	55.5	91.6	101.9	99.4
19	Illinois Hybrid 9/2 (Holmes)	69.9	69.4	.78	22.2	57.0	94.1	100.4	98.8
20 21	Funk Hybrid G-18.	70.0 65.6	67.9 60.6	2.86 7.81	18.6	$\frac{60.5}{76.5}$	99.8 126.2	$\frac{98.3}{87.7}$	$98.7 \\ 97.3$
22	Pioneer Hi-Bred 355. Maland Yellow Dent	64.4	61.6	3.85	15.6 20.3	52.5	86.6	89.1	88.5
23	Huebsch-Murdock Yellow Dent	62.7	59.7	4.65	18.4	48.5	80.0	86.4	84.8
24	Gunn Western Plowman	58.2	57.0	1.94	18.2	52.5	86.6	82.5	83.5
	Average of 5 open-pollinated varieties Stelford's White Cap		57.9 53.0	4.47 11.10	20.0 22.3	49.5 46.5	81.8 76.7	83.8 76.7	83.3 76.7
	Average of all entries		69.1	2.25	19.1	60.6			
	(B) Average yiel	d of en	tries g	rown in	1938,	1939, 19	940		
1	Funk Hybrid G-114	72.6	71.8	.97	24.7	84.2	121.0	103.9	108.2
2	DeKalb Hybrid 404A	75.5	75.1	.58	21.9	69.7	100.1	108.7	106.6
3	Pioneer Hi-Bred 349 Pioneer Hi-Bred 322	76.4 74.7	75.4 73.6	1.33 1.45	$\frac{21.2}{21.6}$	$\frac{68.2}{70.3}$	98.0 101.0	109.1 106.5	106.3 105.1
5	Funk Hybrid G-15	71.9	71.7	.29	22.6	74.2	106.6	103.8	104.5
6	DeKalb Hybrid 421	74.2	73.3	1.18	22.6	67.7	97.3	106.1	103.9
8	DeKalb Hybrid 493	71.0 69.0	70.3 68.2	.98 1.07	$\frac{20.7}{20.3}$	69.2 74.0	99.4 106.3	$\frac{101.7}{98.7}$	101.1 100.6
9	DeKalb Hybrid 204	70.8	70.0	1.12	22.8	68.2	98.0	101.3	100.5
10	Maland Yellow Dent	64.7	62.8	2.69	23.2	65.2	93.7	90.9	91.6
11	Average of 5 open-pollinated varieties Gunn Western Plowman	61.2 59.5	59.2 58.6	3.17 1.45	22.5 21.1	62.1 63.5	89.2 91.2	85.7 84.8	86.6 86.4
12	Huebsch-Murdock Yellow Dent	60.4	58.2	3.54	20.6	61.5	88.4	84.2	85.2
	Average of all entries	70.1	69.1	1.39	21.9	69.6			
	(C) Average yield of	f entri	es grov	vn in 19	37, 19	38, 1939	, 1940		
1	DeKalb Hybrid 421	72.6	71.9	.95	22.7	71.8	106.8	112.2	110.8
2	DeKalb Hybrid 204	69.9 67.8	69.3 67.1	.84 1.10	22.9 21.9	73.1 70.9	108.8 105.5	108.1 104.7	108.3 104.9
4	DeKalb Hybrid 493	61.6	60.0	2.45	24.1	63.9	95.1	93.6	94.0
5	Gunn Western Plowman	59.2	58.5	1.16	21.1	63.6	94.6	91.3	92.1
6	Average of 5 open-pollinated varieties Huebsch-Murdock Yellow Dent	59.7 59.6	58.1 57.9	2.64 2.66	22.8 19.4	61.6 59.6	91.7 88.7	90.6 90.3	90.9 89.9
•	Average of all entries		64.1	1.53	22.0	67.2			
	(D) Average yield of e	ntries	grown	in 1936,	1937,	1938, 19	939, 194	10	
1	DeKalb Hybrid 421	71.9	71.2	.90	25.3	72.5	110.5	115.4	114.2
2	DeKalb Hybrid 493	66.7 57.6	66.1 56.8	.98 1.31	24.4 24.4	71.5 61.1	109.0 93.1	107.1 92.1	107.6 92.4
٠ ٠	Average of 5 open-pollinated varieties	57.0	55.5	2.50	25.5	58.8	89.6	89.9	89.8
	77 1 1 1 1/1/11 12 1	F 4 0		0 42		F. 0			
4	Huebsch-Murdock Yellow Dent	54.2	52.8	2.47	23.8	57.3	87.3	85.6	86.0

Table 6.-NORTHERN ILLINOIS: Kings

Total Sound Soun	Rank	Entry	Acre	-yield	Damaged - corn in	Mois- ture in grain	Mois- ture in	Freet		ating for	-
1 Inwealth Hybrid 25R. 115.1 109.3 5.066 32.9 23.7 95 99.6 118.3 12 "Habn Hybrid 150A 11.6 9 108.5 7.15 30.7 25.9 93 97.5 117.4 11 3 U.S. Hybrid 363 (Coldwater) 111.9 106.1 5.19 34.8 22.4 100 104.8 114.8 11.4 11.5 Illinois Hybrid 751 (Joslin) 109.2 104.8 4.07 33.1 22.4 100 104.8 114.5 11 5 Illinois Hybrid 751 (Joslin) 109.2 104.8 4.07 33.1 22.8 100 104.8 114.5 11 5 Illinois Hybrid 751 (Joslin) 109.2 104.8 4.07 33.1 22.8 100 104.8 113.4 11.5 Illinois Hybrid 751 (Gentert) 110.4 103.8 6.00 36.1 22.4 97 101.7 112.3 11.6 104.9 104.8 114.5 11 10.4 103.8 6.00 36.1 22.4 97 101.7 112.3 11.9 10.9 10.9 10.9 10.9 10.9 10.9 10.9	TORIIK.	Butty	Total	Sound	shelled	on	harvest		Erect		General perform
2 **Hahn Hybrid 150A** 3 **U.S. Hybrid 63 (Coldwater) **II.9 **11.9 **16.3 **1.5 **1.5 **3.6.7 **25.9 **93 **97.5 **117.4 **1.4 **IHolmes Utility Hybrid 39. **11.9 **106.1 **5.19 **3.4.8 **22.4 **100 **104.8 **114.1 **1.4 **IHolmes Utility Hybrid 39. **112.3 **105.4 **6.16 **33.1 **21.8 **100 **104.8 **114.1 **1.1 **111.0 **105.8 **1.3 **1.2 **1.8 **1.2 **1.0 **1.0 **1.1 **1.		1940	bu.	bu.	perct.	perct.	perct.	perct.	perct.	perct.	
2 **Hahn Hybrid B3C Coldwater) 111,9 106,1 5.19 34.8 22.4 100 104.8 114.1 14 14 Holmes Utility Hybrid 39, 112.3 105.4 6.16 33.1 22.4 100 104.8 114.1 14.8 11 15 Illinois Hybrid 751 (Josin). 109.2 104.8 4.07 33.1 21.8 100 104.8 114.1 14.8 11 15 Illinois Hybrid 751 (Josin). 109.2 104.8 4.07 33.1 21.8 100 104.8 114.1 14.8 11 15 Illinois Hybrid 751 (Genter). 109.8 107.7 1.87 31.8 21.8 83 92.2 116.6 11 16.6 10.8 11.1 16.6 10.8 4.07 33.1 21.8 10.1 104.8 114.5 11 10.9 10.9 10.9 10.9 10.9 10.9 10.9 1	1 Iow	realth Hybrid 25R	115.1								113.6
4 *Holmes Utility Hybrid 39. 112.3 105.4 6.16 33.1 22.4 100 104.8 114.1 1 5 1111005 Hybrid 751 (Josin). 109.2 104.8 4.07 33.1 21.8 100 104.8 114.1 1 6 15 1111005 Hybrid 697. 109.8 107.7 1.87 31.2 21.8 39.3 27.3 96 100.6 114.5 1 7 DeKalb Hybrid 697. 109.8 107.7 1.87 31.8 21.8 88 92.2 100.6 114.5 1 8 1111005 Hybrid 751 (Gentert). 110.4 103.8 6.00 36.1 22.4 97 101.7 112.3 1 10 10 10 10 10 10 10 10 10 10 10 10 1	2 *Ha	bn Hybrid 150A	116.9								112.4
5 Illinois Hybrid 751 (Joslin)				106.1					104.8		112.3
6 *Richbred Hybrid 894. 110.6 105.8 4.32 39.3 27.3 96 100.6 104.5 11 7 *DeKalb Hybrid 607 109.8 107.7 1.87 31.8 21.8 88 92.1 116.5 11 8 *Illinois Hybrid 751 (Gentert) 110.4 103.8 6.00 36.1 22.4 97 101.7 112.3 11 10 *Bear Hybrid OK-24 111.0 104.3 6.00 33.3 21.1 94 98.5 112.9 11 110 *Bear Hybrid OK-24 111.0 104.3 6.00 33.3 21.1 94 98.5 112.9 11 111 *Pioneer Hi-Bred 307 111.0 104.0 6.28 33.3 23.7 93 97.5 112.6 11 12 *Pioneer Hi-Bred 322 107.9 102.6 4.94 31.3 20.8 96 100.6 110.0 11 13 *Seeber Hybrid 500 109.0 101.5 6.84 36.3 26.4 98 102.7 109.9 11 14 *Yoway-Supercore 124-H. 108.4 100.8 7.03 31.1 20.8 100 104.8 109.1 104.1	4 "Ho	mes Utility Hybrid 39	112.3	105.4			22.4				$\frac{111.8}{111.2}$
7 DeKalb Hybrid 607. 109.8 107.7 1.87 31.8 21.8 88 92.2 116.6 11 8 Illinois Hybrid 751 (Gentert). 110.4 103.8 6.00 36.1 22.4 97 101.7 112.3 11 91 10 10 10 10 10 10 10 10 10 10 10 10 10	6 *Ric	hhred Hybrid 804	110 6			39.3					111.0
8 Illinois Hybrid 751 (Gentert). 110.4 103.8 6.00 36.1 22.4 97 101.7 112.3 110 'Plear Hybrid UK-24. 111.0 104.3 6.00 33.3 21.1 94 98.5 112.9 111 110 114.3 6.00 33.3 21.1 94 98.5 112.9 111 12 111 11 12 111 12 111 12 111 12 111 12 111 12 111 12 111 12 111 12 111 12 111 12 111 12 111 12 111 12 111 12 111 12 111 12 111 12 11 1	7 Del	Kalb Hybrid 607	109.8				21.8				110.5
10 Sear Hybrid OK-24	8 Illi	nois Hybrid 751 (Gentert)	110.4				22.4				109.7
11 Pioneer Hi-Bred 307. 111.0 104.0 6.28 33.3 23.7 93 97.5 112.6 1 12 Pioneer Hi-Bred 3222. 107.9 102.6 4.94 31.3 20.8 96 100.6 111.0 11 13 Seeber Hybrid 50. 109.0 101.5 6.84 36.3 26.4 98 102.7 109.9 11 15 Pioneer Hi-Bred 324. 105.8 101.1 4.45 32.2 21.1 96 100.6 104.8 109.1 11 15 Pioneer Hi-Bred 324. 105.8 101.1 4.45 32.2 21.1 96 100.6 109.4 11 16 Morgan Hybrid M-52. 108.1 102.3 5.33 37.2 22.7 91 95.4 110.7 11 17 *Illinois Hybrid 350 (1.H.P.) 104.9 100.1 4.60 35.0 22.7 97 101.7 108.3 11 17 *Illinois Hybrid 350 (1.H.P.) 104.9 100.1 4.60 35.0 22.7 97 101.7 108.3 11 19 *Bear Hybrid OK-23. 114.6 103.0 10.10 31.3 23.0 87 91.2 111.5 11 19 *Bear Hybrid CK-24. 107.6 100.5 6.58 34.6 22.1 94.9 88.5 108.8 11 20 Pioneer Hi-Bred 314. 107.6 100.5 6.58 34.6 22.1 94.9 88.5 108.8 11 21 National Hybrid 117. 107.2 97.7 8.84 35.8 24.8 100 104.8 105.6 10 22 *Holmee Utility Hybrid 49 107.2 97.7 8.84 35.8 24.8 100 104.8 105.6 10 24 U.S. Hybrid 34 (Siebeo). 111.7 101.4 9.24 34.0 24.3 87 91.2 109.7 11 25 *Sase Hybrid 30. 107.0 98.2 8 22.3 86.2 21.4 96 100.6 106.3 11 26 M-I. Hybrid 120 (Moew-Lowe). 102.2 96.7 5.40 34.5 24.5 99 103.8 104.7 11 27 *DeKalb Hybrid 421. 104.9 100.4 4.25 31.5 20.7 87 91.2 108.7 11 28 *DeKalb Hybrid 44A. 104.9 104.4 2.5 23.2 20.2 8.9 6 100.6 104.3 11 29 *DeKalb Hybrid 40A. 104.2 96.4 7.52 30.2 20.8 96 100.6 104.3 11 30 *E. W. Doubet Hybrid D3. 102.6 95.8 6.65 33.8 22.1 95 99.6 100.6 104.3 11 30 *E. W. Doubet Hybrid A. 104.2 94.7 8.9 33.1 23.3 97 101.7 102.5 11 31 National Hybrid 751 (Ferris). 104.3 94.9 6.82 35.1 21.8 98 102.7 102.7 11 32 *Funk Hybrid 67-114. 100.8 94.6 6.67 33.2 23.3 98 102.7 102.7 11 34 *Rilinois Hybrid 751 (Ferris). 104.3 94.9 6.82 35.1 21.8 99 103.8 101.6 11 35 *Furr Hybrid 75. 104.7 104.3 94.9 6.82 35.1 21.8 99 103.8 101.6 10.3 11 36 *Townealth Hybrid 751 (Ferris). 104.3 94.9 6.82 35.1 22.1 99 103.8 100.1 11 34 *Vart Hybrid 67-12 99.9 8.8 82.1 11.6 33.0 7 22.1 99 103.8 90.7 102.4 11 35 *Furr Hybrid 78. 104.9 99.8 88.2 11.6 30.0 7 22.1 99 103.8 90.7 102.5 11 36 *Townealth Hybrid 40.0 90.8											109.5
12 Pioneer Hi-Bred 322. 107.9 102.6 4.94 31.3 20.8 96 100.6 101.0 101.5 63.8 36.3 26.4 98 102.7 109.9 101.4 108.4 100.8 7.03 31.1 20.8 100 104.8 109.1 105.6 101.1 4.45 32.2 21.1 96 100.6 109.4 105.6 101.1 4.45 32.2 21.1 96 100.6 109.4 105.6 101.1 4.55 32.2 22.7 91 95.4 110.7 101.6 103.0 101.1 4.60 35.0 22.7 97 101.7 103.3 107.5 107.6 10	10 Bes	r Hybrid OK-24	111.0			33.3					109.3
13 Seeber Hybrid 50 109 101 5 6 84 36 3 26 4 98 102 7 109 9 1 14 * Toway-Supersorn 214-H 108 4 100 8 7 103 31 1 20 8 100 104 8 109 1 115 15 Pioneer Hi-Bred 324 105 8 101 1 4 45 32 2 21 1 96 100 6 104 8 109 1 117 16 Morgan Hybrid 350 (1.H.P.) 104 9 100 1 4 60 33 7 2 2 7 91 95 4 110 7 117 17 * Flunk Hybrid 350 (1.H.P.) 104 9 100 1 4 60 35 0 22 7 97 101 7 108 3 119 18 Bear Hybrid OK-23 114 6 103 0 10 10 31 3 23 0 87 91 2 111 5 119 19 Bear Hybrid OK-23 114 6 103 0 10 10 31 3 23 0 87 91 2 111 5 119 20 Pioneer Hi-Bred 314 107 6 100 5 6 58 33 7 2 22 1 94 98 5 108 7 101 7 106 9 102 21 National Hybrid 117 101 5 98 8 2 63 33 7 2 22 1 94 98 5 108 7 101 7 106 9 102 10											108.8 108.4
14 * 10way-Supercorn 214-H. 108											108.1
15 Pioneer Hi-Bred 324. 105.8 101.1 4.45 32.2 21.1 96 100.6 109.4 117 116 Morgan Hybrid 350 (I.H.P.) 104.9 100.1 4.60 35.0 22.7 97 101.7 108.3 117 119 Bear Hybrid G37. 105.6 99.3 5.98 36.0 22.7 97 101.7 108.3 119 Bear Hybrid G47. 105.6 100.5 6.58 34.6 22.1 94 98.5 108.8 109.5 119 Bear Hybrid G4.23 114.6 103.0 10.10 31.3 23.0 87 91.2 111.5 11 120 Pioneer Hi-Bred 314. 107.6 100.5 6.58 34.6 22.1 94 98.5 108.8 102 1 National Hybrid 117. 101.5 98.8 2.68 33.7 21.1 97 101.7 106.9 11 12 11 15 11 12 12 Holmes Utility Hybrid 49. 107.2 97.7 8.84 35.8 24.8 100 104.8 105.7 106.9 11 12 12 Hybrid 44 (Sieben) 111.7 101.4 9.24 34.0 24.3 87 91.2 109.7 102.5 Sass Hybrid 30. 107.0 98.2 8.22 36.2 21.4 96 100.6 106.3 10 106.3	14 *Iow	ray-Supercorn 214-H	108.4								108.0
16 Morgan Hybrid M-52. 108.1 102.3 5.33 37.2 22.7 91 95.4 110.7 11 7 11 101 101 11 400 35.0 22.7 97 101.7 108.3 11 17 17 11 101 11 15 11 17 11 101 15 98.8 102.3 23.0 87 99 103.8 107.5 11 19 10 10 10 10 10 10 10 10 10 10 10 10 10	15 Pio	neer Hi-Bred 324	105.8	101.1	4.45	32.2	21.1	96	100.6	109.4	107.2
17 *Funk Hybrid G-37.	16 Mo	rgan Hybrid M-52	108.1								106.9
20 Pioneer Hi-Bred 314. 107.6 100.5 6.88 34.6 22.1 94 98.5 109.8 102.2 National Hybrid 117. 101.5 98.8 2.63 33.7 21 1 97 101.7 106.9 11.2 "Holmes Utility Hybrid 49. 107.2 97.7 8.84 35.8 24.8 100 104.8 105.7 11.2 DeKalb Hybrid 615. 104.9 97.6 6.97 34.0 21.4 100 104.8 105.7 11.2 105.5 "Sass Hybrid 30. 111.7 101.4 9.24 34.0 24.3 87 91.2 109.7 11.2 5"Sass Hybrid 30. 107.0 98.2 8.22 36.2 21.4 96 100.6 106.3 11.2 12.5 "Sass Hybrid 21 (Moewa-Lowe). 102.2 96.7 5.40 34.5 24.5 99 103.8 104.7 11.2 12.5 "DeKalb Hybrid 421. 104.9 100.4 4.26 31.5 20.7 87 91.2 108.7 11.2 12.5 "DeKalb Hybrid 421. 104.9 100.4 4.26 31.5 20.7 87 91.2 108.7 11.2 12.5 "DeKalb Hybrid 404A. 104.2 96.4 7.52 30.2 20.8 96 100.6 104.3 11.2 12.5 "DeKalb Hybrid 404A. 104.2 96.4 7.52 30.2 20.8 96 100.6 104.3 11.2 12.5 "DeKalb Hybrid 404A. 104.2 96.4 7.52 30.2 20.8 96 100.6 104.3 11.2 12.5 "DeKalb Hybrid 63 (Perris). 101.8 94.9 6.82 35.1 21.8 98 102.7 102.7 11.3 12.5 Tunk Hybrid G-114. 100.8 94.6 6.17 33.2 23.3 98 102.7 102.7 11.3 "Furr Hybrid 67. 102.8 94.7 7.89 33.1 23.3 97 101.7 102.5 11.3 Hillinois Hybrid 751 (Ferris). 104.3 93.9 9.95 32.9 23.7 99 103.8 101.6 11.3 National Hybrid 116. 99.3 93.9 5.45 34.7 21.8 99 103.8 101.6 11.3 National Hybrid 751 (Ferris). 104.3 93.9 9.95 32.9 23.7 99 103.8 101.6 11.3 10.5 11.4 Hybrid 75.0 (Moewa-Lowe). 98.7 92.4 6.34 34.0 24.3 100 104.8 100.1 11.3 11.4 Hybrid 75.0 (Moewa-Lowe). 98.7 92.4 6.34 34.0 24.3 100 104.8 100.1 11.3 11.4 Hybrid 75.0 (Moewa-Lowe). 98.7 92.4 6.34 34.0 24.3 100 104.8 100.1 11.3 11.4 Hybrid 75.0 (Moewa-Lowe). 98.7 92.4 6.34 34.0 24.3 100 104.8 100.1 11.3 11.4 Hybrid 75.0 (Moewa-Lowe). 98.7 92.4 6.34 34.0 24.3 100.0 104.8 97.8 100.1 11.4 11.4 11.4 11.4 11.4 11.4 11.	17 °Illin	nois Hybrid 350 (I.H.P.)	104.9								106.6 106.6
20 Pioneer Hi-Bred 314. 107.6 100.5 6.88 34.6 22.1 94 98.5 109.8 102.2 National Hybrid 417. 101.5 98.8 2.63 33.7 22 1 97 101.7 106.9 11.2 "Holmes Utility Hybrid 49. 107.2 97.7 8.84 35.8 24.8 100 104.8 105.7 102.9 DeKalb Hybrid 615. 104.9 97.6 6.97 34.0 21.4 100 104.8 105.7 102.4 U.S. Hybrid 44 (Siebeu). 111.7 101.4 9.24 34.0 24.3 87 91.2 109.7 102.5 "Sase Hybrid 30. 107.0 98.2 8.22 36.2 21.4 96 100.6 106.3 10.2 107.0 98.2 8.22 36.2 21.4 96 100.6 106.3 10.2 107.0 107.0 98.2 8.22 36.2 21.4 96 100.6 106.3 10.2 107.0 107.0 98.2 8.28 35.0 21.4 96 100.6 106.3 10.2 107.0 107.0 98.2 8.28 35.0 21.4 96 100.6 106.3 10.2 107.0 1	10 *Red	r Hybrid OK-23	114 6								106.4
21 National Hybrid 117	20 Pio	neer Hi-Bred 314	107.6				22.1				106.2
22 *Holmes Utility Hybrid 49. 107. 2 97.7 8.84 35.8 24.8 100 104.8 105.7 11 3 DeKabh Hybrid 415. 104.9 97.6 6.97 34.0 21.4 100 104.8 105.6 11 24 U.S. Hybrid 44 (Sieben). 111.7 101.4 9.24 34.0 24.3 87 91.2 109.7 10 25 *Sass Hybrid 30. 107.0 98.2 8.22 36.2 21.4 96 100.6 106.3 11 26 M-L Hybrid 120 (Moewa-Lowe). 102.2 96.7 5.40 34.5 24.5 99 103.8 104.7 11 27 DeKabh Hybrid 421. 104.9 100.4 4.26 31.5 20.7 87 91.2 108.7 11 28 *DeKabh Experimental Hyb. 43. 105.9 96.4 8.98 32.8 23.0 96 100.6 104.3 11 28 *DeKabh Experimental Hyb. 43. 105.9 96.4 7.52 30.2 20.8 96 100.6 104.3 11 30 *E. W. Doubet Hybrid D3. 102.6 95.8 6.65 33.8 22.1 95 99.6 103.7 11 30 *E. W. Doubet Hybrid D3. 102.6 95.8 6.65 33.8 22.1 95 99.6 103.7 11 32 *Funk Hybrid G-114. 100.8 94.6 6.17 33.2 23.3 98 102.7 102.7 11 33 *Furr Hybrid 67. 102.8 94.7 7.89 33.1 23.3 97 101.7 102.5 11 34 *Illinois Hybrid 751 (Ferris). 104.3 93.9 9.95 32.9 23.7 99 103.8 101.6 11 34 *National Hybrid 116. 99.3 93.9 5.45 34.7 21.8 99 103.8 101.6 11 35 *Illinois Hybrid AQ. 100.3 94.5 5.74 34.7 22.7 95 99.6 102.3 11 36 *Iowealth Hybrid 14 (Moewa-Lowe). 98.7 99.2 4 6.34 34.0 24.3 100 104.8 100.0 11 39 *Illinois Hybrid 976 (Monier). 100.6 99.2 5 8.08 33.6 23.0 98 102.7 100.1 11 39 *Illinois Hybrid 78. 100.6 99.2 99.3 10.2 1.99 103.8 101.6 11 39 *Illinois Hybrid 79.0 100.6 99.2 99.3 10.2 1.99 103.8 100.1 11 39 *Illinois Hybrid 976 (Monier). 100.6 99.2 5 8.08 33.6 23.0 98 102.7 100.1 11 39 *Illinois Hybrid 976 (Monier). 100.6 99.2 5 8.08 33.6 23.0 99 102.7 100.1 11 39 *Illinois Hybrid 976 (Monier). 100.6 99.2 5 8.08 33.6 23.0 99 102.7 100.1 11 39 *Illinois Hybrid 976 (Monier). 100.6 99.2 5 8.08 33.6 23.0 99 103.8 90.0 104.8 90.9 103.8 100.0 104.8 90.9 103.8 100.0 104.8 90.9 103.8 100.0 104.8 90.9 103.8 100.0 104.8 90.9 103.8 100.0 104.8 90.9 103.8 100.0 104.8 90.9 103.8 100.0 104.8 90.9 103.8 90.0 104.8 90.9 103.8 90.0 104.8 90.9 103.8 90.0 104.8 90.9 103.8 90.0 104.8 90.9 103.8 90.0 104.8 90.9 103.8 90.0 104.8 90.9 103.8 90.0 104.8 90.9 103.8 90.0 104.8 90.9 103.8 90.0 104.8 90.9 103.8		tional Hybrid 117	101.5				21 1				105.6
24 U.S. Hybrid 44 (Sieben) 111.7 101.4 9.24 34.0 24.3 87 91.2 109.7 125 "Sass Hybrid 30. 107.0 98.2 8.22 36.2 21.4 96 100.6 106.3 10.2 M-L Hybrid 120 (Moewa-Lowe) 102.2 96.7 5.40 34.5 24.5 99 103.8 104.7 10.2 10.2 10.2 10.4 10.4 10.4 10.4 10.4 10.4 10.4 10.4	22 *Ho	lmes Utility Hybrid 49	107.2								105.5
25 *Sase Hybrid 30.		Kalb Hybrid 615	104.9								105.4
26 M-L Hybrid 120 (Moew-Lowe) 102.2 96.7 5.40 34.5 24.5 99 103.8 104.7 127 DeKalb Hybrid 421 104.9 100.4 4.26 31.5 20.7 87 91.2 108.7 11.28 "DeKalb Hybrid 404A 104.2 96.4 7.52 30.2 20.8 96 100.6 104.3 10.3 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5		S. Hybrid 44 (Sieben)	111.7								105.1
27 DeKalb Hybrid 421. 104.9 100.4 4.26 31.5 20.7 87 91.2 108.7 11.28 "DeKalb Experimental Hyb. 43 105.9 96.4 8.98 32.8 23.0 96. 100.6 104.3 10.30 "E. W. Doubet Hybrid 404. 104.2 96.4 7.52 30.2 20.8 96 100.6 104.3 10.30 "E. W. Doubet Hybrid D3. 102.6 96.8 6.65 33.8 22.1 95 99.6 103.7 13.0 U.S. Hybrid 63 (Ferris) 101.8 94.9 6.82 35.1 21.8 98 102.7 102.7 10.32 Funk Hybrid G-114. 100.8 94.6 6.17 33.2 23.3 98 102.7 102.7 10.33 "Furr Hybrid 67. 102.8 94.7 7.89 33.1 23.3 97 101.7 102.5 10.34 Illinois Hybrid 751 (Ferris) 104.3 93.9 9.95 32.9 23.7 99 103.8 101.6 10.34 National Hybrid 116. 99.3 93.9 5.45 34.7 21.8 99 103.8 101.6 10.34 National Hybrid AQ. 100.3 94.5 5.74 34.7 22.7 95 99.6 102.3 10.8 Furr Hybrid 68.8 102.1 92.5 94.2 35.9 22.1 99 103.8 101.6 10.37 11.09											104.9 104.5
28 DeKalb Experimental Hyb. 43. 105.9 96.4 8.98 32.8 23.0 96. 100.6 104.3 11 80 DeKalb Hybrid 404A. 104.2 96.4 7.52 30.2 20.8 96. 100.6 104.3 11 30 E.W. Doubet Hybrid D3. 102.6 95.8 6.65 33.8 22.1 95 99.6 103.7 10 30 U.S. Hybrid 63 (Ferris) 101.8 94.9 6.82 35.1 21.8 98 102.7 102.7 10 31 Furn Hybrid 67.114. 100.8 94.6 6.17 33.2 23.3 98 102.7 102.4 10 33 Furr Hybrid 67. 104.3 93.9 94.7 7.89 33.1 23.3 97 101.7 102.5 11 41 Illinois Hybrid 751 (Ferris) 104.3 93.9 9.95 32.9 23.7 99 103.8 101.6 11 34 National Hybrid 116. 99.3 93.9 5.45 34.7 21.8 99 103.8 101.6 11 35 Iowealth Hybrid AQ. 100.3 94.5 5.74 34.7 22.7 99 103.8 101.6 11 36 Iowealth Hybrid AQ. 100.3 94.5 5.74 34.7 22.7 99 103.8 100.1 01 38 Furr Hybrid 88. 102.1 92.5 9.42 35.9 22.1 99 103.8 100.1 10 39 Illinois Hybrid 75 (Monier) 100.6 92.5 8.08 33.6 23.0 98 102.7 100.1 10 40 Furr Hybrid 78. 102.9 92.3 10.28 29.9 22.7 94 98.5 99.9 103.1 100.1 10 40 Furr Hybrid 78. 102.1 99.4 11.42 28.0 19.6 100 104.8 97.8 10.1 10 40 Pioner Hi-Bred 353. 102.1 99.4 11.42 28.0 19.6 100 104.8 97.8 10.1 10.4 10.4 10.4 10.4 10.4 10.4 10.4											104.3
28 DeKalb Hybrid 404A. 104.2 96.4 7.52 30.2 20.8 96 100.6 104.3 10 *E. W. Doubet Hybrid D3. 102.6 95.8 6.65 33.8 22.1 95 99.6 103.7 11 30 U. S. Hybrid 63 (Ferris). 101.8 94.9 6.82 35.1 21.8 98 102.7 102.7 10 32 Funk Hybrid G-114. 100.8 94.6 6.17 33.2 23.3 98 102.7 102.7 10 33 *Furr Hybrid 67. 102.8 94.7 7.89 33.1 23.3 97 101.7 102.5 11 41 Illinois Hybrid 751 (Ferris). 104.3 93.9 9.95 32.9 23.7 99 103.8 101.6 11 42 Hillinois Hybrid 751 (Ferris). 104.3 93.9 9.95 32.9 23.7 99 103.8 101.6 11 36 Iowealth Hybrid AQ. 100.3 94.5 5.74 34.7 21.8 99 103.8 101.6 11 37 M-L Hybrid 4 (Moewa-Lowe). 98.7 92.4 6.34 34.7 22.7 95 99.6 102.3 10 38 Furr Hybrid 88. 102.1 92.5 9.42 35.9 22.1 99 103.8 100.1 11 39 Illinois Hybrid 976 (Monier). 100.6 92.5 8.08 33.6 23.0 98 102.7 100.1 11 39 Illinois Hybrid 976 (Monier). 100.6 92.5 8.08 33.6 23.0 98 102.7 100.1 11 39 Illinois Hybrid 976 (Monier). 100.6 92.5 8.08 33.6 23.0 98 102.7 100.1 11 40 Furr Hybrid 78. 102.9 92.3 10.28 29.9 22.7 94 98.5 99.9 10 40 Fioneer Hi-Bred 353. 102.1 90.4 11.42 28.0 19.6 100 104.8 97.8 42 Pioneer Hi-Bred 353. 102.1 90.4 11.42 28.0 19.6 100 104.8 97.8 43 Holmes Utility Hybrid 35. 101.6 89.8 11.62 37.5 24.1 98 102.7 97.2 2 44 Furr Hybrid 77. 100.4 88.7 11.63 33.7 23.9 99 103.8 96.0 45 Funk Hybrid 6-19. 99.8 88.2 11.67 30.7 22.1 99 103.8 96.0 46 Iowealth Hybrid 6-2.9 92.9 87.4 5.88 34.0 22.1 99 103.8 96.0 47 Funk Hybrid 6-2.9 92.9 87.4 5.88 34.0 22.1 99 103.8 96.0 48 *1.H.P. Hybrid 6-2.5 89.0 85.0 4.46 35.5 21.1 99 103.8 94.6 49 Hoosier Crost Hybrid 422. 90.5 85.1 6.02 32.9 21.8 100 104.8 92.9 51 *Fritsch Bros. Hybrid 731. 97.5 86.4 11.42 33.0 22.4 94 98.5 99.5 5 52 M-L Hybrid 13 (Moewa-Lowe). 94.7 83.9 11.38 31.9 22.4 98 102.7 90.8 53 DeKalb Hybrid 13 (Moewa-Lowe). 96.0 68.4 25.78 31.4 22.1 100 104.8 92.1 55 M-L Hybrid 13 (Moewa-Lowe). 96.0 68.4 25.78 31.4 22.1 100 104.8 74.0 57 Maland Yellow Dent. 77.5 75.7 56.4 26.64 31.8 23.7 86 90.1 41.2 58 Pingston Yellow Dent. 77.3 49.5 36.00 30.4 21.3 77 80.7 33.6		Kalb Experimental Hyb. 43	105.9				23.0				103.4
30 U. S. Hybrid 63 (Perria) 101.8 94.9 6.82 35.1 21.8 98 102.7 102.7 102.7 102.7 102.7 102.7 102.7 102.8 94.7 7.89 33.1 23.3 98 102.7 102.4 11.33 98 102.7 102.4 11.33 98 102.7 102.4 11.33 98 102.7 102.5 103.3 98 102.7 102.5 103.3 103.3 98 102.7 102.5 103.3 103.3 103.3 98 102.7 102.5 103.3 103.3 103.3 103.3 103.3 103.3 103.3 103.3 103.3 103.3 103.3 103.3 103.3 103.3 103.3 103.3 103.3 103.3 103.3 103.5	28 De	Kalb Hybrid 404A	104.2			30.2					103.4
32 Funk Hybrid G-114. 100.8 94.6 6.17 33.2 23.3 98 102.7 102.4 13 *Funr Hybrid 67. 102.8 94.7 7.89 33.1 23.3 97 101.7 102.5 11 34 Illinois Hybrid 751 (Ferris). 104.3 93.9 9.5 32.9 23.7 99 103.8 101.6 11 34 National Hybrid 116. 99.3 93.9 5.45 34.7 21.8 99 103.8 101.6 11 34 National Hybrid AQ. 100.3 94.5 5.74 34.7 22.7 95 99.6 102.3 11 37 M-L Hybrid 14 (Moewa-Lowe). 98.7 92.4 6.34 34.0 24.3 100 104.8 100.0 11 38 Furr Hybrid 88. 102.1 92.5 9.42 35.9 22.1 99 103.8 100.1 11 39 Illinois Hybrid 976 (Monier). 100.6 92.5 8.08 33.6 23.0 98 102.7 100.1 11 40 Furr Hybrid 78. 102.9 92.3 10.28 29.9 22.7 94 98.5 99.9 102.4 10.9 103.8 100.1 11 40 Furr Hybrid 78. 102.9 92.3 10.28 29.9 22.7 94 98.5 99.9 102.4 11 42 28.0 19.6 100.1 104.8 97.8 142 Phoneer Hi-Bred 353. 102.1 90.4 11.42 28.0 19.6 100 104.8 97.8 142 Phoneer Hi-Bred 350. 101.6 89.4 11.96 34.8 23.7 100 104.8 96.8 14. Hybrid 77. 100.4 88.4 11.96 34.8 23.7 100 104.8 96.8 14. Hybrid 77. 100.4 88.7 11.63 33.7 23.9 99.103.8 96.0 10.4 14.5 Furr Hybrid 77. 100.4 88.7 11.63 33.7 23.9 99.103.8 96.0 10.4 14.5 Furr Hybrid G-19. 99.8 88.2 11.67 30.7 22.1 99.103.8 94.6 14.5 Funk Hybrid G-22. 92.9 87.4 5.88 34.0 22.1 99.103.8 94.6 14.5 Funk Hybrid G-22. 92.9 87.4 5.88 34.0 22.1 99.103.8 94.6 14.5 Funk Hybrid G-25. 89.0 85.0 4.46 35.5 21.1 99.103.8 94.6 14.5 Funk Hybrid 20 (Moewa-Lowe). 94.7 88.9 11.38 31.9 22.4 94.9 89.5 93.5 15.5 10.5 Funk Hybrid 20 (Moewa-Lowe). 94.7 88.9 11.38 31.9 22.4 94.9 89.5 93.5 15.5 10.5 10.5 10.5 10.5 10.5 10.5 10	30 °E.	W. Doubet Hybrid D3	102.6								102.7
33 *Furr Hybrid 67. 102.8 94.7 7.89 33.1 23.3 97 101.7 102.5 11 34 Illinois Hybrid 751 (Ferris) 104.3 93.9 9.95 32.9 23.7 99 103.8 101.6 11 34 National Hybrid 116. 99.3 93.9 5.45 34.7 21.8 99 103.8 101.6 11 35 Iowealth Hybrid AQ. 100.3 94.5 5.74 34.7 22.7 95 99.6 102.3 11 36 Iowealth Hybrid 14 (Moewa-Lowe) 98.7 92.4 6.34 34.0 24.3 100 104.8 100.0 11 38 Furr Hybrid 88. 102.1 92.5 9.42 35.9 22.1 99 103.8 100.1 11 39 Illinois Hybrid 76 (Monier) 100.6 92.5 8.08 33.6 23.0 93 102.7 100.1 12 40 Furr Hybrid 78. 102.9 92.3 10.28 29.9 22.7 94 98.5 99.9 103.8 100.1 12 40 Pioneer Hi-Bred 353. 102.1 90.4 11.42 28.0 19.6 100 104.8 97.8 14 42 Pioneer Hi-Bred 330. 101.6 89.4 11.96 34.8 23.7 100 104.8 96.8 14 43 Holmes Utility Hybrid 35. 101.6 89.8 11.62 37.5 24.1 98.102.7 97.2 14 44 Furr Hybrid 77. 100.4 88.7 11.63 33.7 23.9 99.103.8 96.0 14 45 Funk Hybrid G-19. 99.8 88.2 11.67 30.7 22.1 99.103.8 96.0 10 46 Iowealth Hybrid G-22. 99.9 87.4 5.88 34.0 22.1 99.103.8 96.0 10 47 Funk Hybrid G-22. 99.9 87.4 5.88 34.0 22.1 99.103.8 96.5 14 48 "1H.P. Hybrid 66. 86.6 85.8 91 34.0 22.1 100 104.8 92.1 100 104.8 92.9 100 100 100 100 100 100 100 100 100 10	30 U.	S. Hybrid 63 (Ferris)	101.8								102.7 102.5
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37 M-L Hybrid 14 (Moewa-Lowe) 98.7 92.4 6.34 34.0 24.3 100 104 8 100.0 1 38 Furr Hybrid 88. 102.1 92.5 9.42 35.9 22.1 99 103.8 100.1 11 39 Illinois Hybrid 976 (Monier) 100.6 92.5 8.08 33.6 23.0 98 102.7 100.1 11 40 Furr Hybrid 78. 102.9 92.3 10.28 29.9 22.7 94 98.5 99.9 1 40 Pioneer Hi-Bred 353. 102.1 90.4 11.42 28.0 19.6 100 104.8 97.8 1 42 Pioneer Hi-Bred 330. 101.6 89.4 11.96 34.8 23.7 100 104.8 97.8 1 43 Holmes Utility Hybrid 35. 101.6 89.8 11.62 37.5 24.1 98 102.7 97.2 1 44 Furr Hybrid 77. 100.4 88.7 11.63 33.7 23.9 99 103.8 96.0 0 45 Funk Hybrid G-19 99.8 88.2 11.67 30.7 22.1 99 103.8 96.0 0 46 Iowealth Hybrid AQP. 94.6 87.4 7.63 32.5 21.1 99 103.8 95.5 1 47 Funk Hybrid G-22 92.9 87.4 5.88 34.0 22.1 99 103.8 94.6 1 48 "1.H.P. Hybrid 66. 86.6 85.8 91 34.0 22.1 100 104.8 92.9 1 49 Hoosier Crost Hybrid 422. 90.5 85.1 6.02 32.9 21.8 100 104.8 92.1 1 50 Funk Hybrid G-25. 89.0 85.0 4.46 35.5 21.1 99 103.8 92.1 1 51 "Fritsech Bros. Hybrid 731. 97.5 86.4 11.42 33.0 22.4 94 98.5 93.5 1 52 M-L Hybrid 20 (Moews-Lowe) 94.7 83.9 11.33 31.9 22.4 94 90.2 99.8 10.5 1 "Fritsech Bros. Hybrid 740. 98.8 82.5 16.50 29.0 20.5 97 101.7 89.3 1 54 Hunt White Dent. 87.2 83.3 4.46 34.5 23.0 71 74.4 90.2 1 55 M-L Hybrid 13 (Moews-Lowe) 96.0 68.4 28.78 31.4 22.1 100 104.8 74.0 90.3 1 58 M-L Hybrid 13 (Moews-Lowe) 90.7 72.4 20.14 30.6 24.5 100 104.8 74.0 10.4 104.8 74.0 10.5 104.8 74.0 10.5 104.8 74.0 10.5 104.8 74.0 10.5 104.8 74.0 10.5 104.8 74.0 10.5 104.8 74.0 10.5 104.8 74.0 10.5 104.8 74.0 10.5 104.8 74.0 10.5 104.8 74.0 10.5 104.8 74.0 10.5 104.8 74.0 104.8 104.8 104.0	34 Na	tional Hybrid 116	99.3			34.7	21.8				102.2
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40 Furr Hybrid 78. 102.9 92.3 10.28 29.9 22.7 94 98.5 99.9 40 Pioneer Hi-Bred 353. 102.1 90.4 11.42 28.0 19.6 100 104.8 97.8 42 Pioneer Hi-Bred 330. 101.6 89.4 11.96 34.8 23.7 100 104.8 96.8 43 Holmes Utility Hybrid 35. 101.6 89.4 11.96 34.8 23.7 100 104.8 96.8 44 Furr Hybrid 77. 100.4 88.7 11.63 33.7 23.9 99. 103.8 96.0 45 Funk Hybrid G-19. 99.8 88.2 11.67 30.7 22.1 99. 103.8 96.0 45 Funk Hybrid G-19. 99.8 88.2 11.67 30.7 22.1 99. 103.8 95.5 46.1 10.9 103.8 94.6 87.4 7.63 32.5 21.1 99. 103.8 94.6 87.4 7.63 32.5 21.1 99. 103.8 94.6 87.4 10.9 10.9 10.9 10.9 10.9 10.9 10.9 10.9	38 Ful	nois Hybrid 976 (Monier)	102.1 100 B								101.0 100.8
40 Pioneer Hi-Bred 353. 102.1 90.4 11.42 28.0 19.6 100 104.8 97.8 42 Pioneer Hi-Bred 330. 101.6 89.4 11.96 34.8 23.7 100 104.8 96.8 43 Holmes Utility Hybrid 35. 101.6 89.8 11.62 37.5 24.1 98 102.7 97.2 44 Furr Hybrid 77. 100.4 88.7 11.63 33.7 23.9 99 103.8 96.0 45.5 Funk Hybrid G-19. 99.8 88.2 11.67 30.7 22.1 99 103.8 96.0 46 Iowealth Hybrid AQF. 94.6 87.4 7.63 32.5 21.1 99 103.8 95.5 46 Iowealth Hybrid G-22. 92.9 87.4 5.88 34.0 22.1 10.0 104.8 92.9 48 "1.H.P. Hybrid 66. 86.6 85.8 91 34.0 22.1 100 104.8 92.9 49 Hoosier Crost Hybrid 422. 90.5 85.1 6.02 32.9 21.8 100 104.8 92.9 49 Hoosier Crost Hybrid 422. 90.5 85.1 6.02 32.9 21.8 100 104.8 92.1 50 Funk Hybrid 69.25 89.0 85.0 4.46 35.5 21.1 99 103.8 92.0 51 "Fritsch Bros. Hybrid 731. 97.5 86.4 11.42 33.0 22.4 94 98.5 93.5 52 M.L Hybrid 20 (Moews-Lowe) 94.7 83.9 11.38 31.9 22.4 94 98.5 93.5 53 DeKalb Hybrid 410. 98.8 82.5 16.50 29.0 20.5 97 101.7 89.3 35.5 M.L Hybrid 13 (Moews-Lowe) 90.7 72.4 20.14 30.6 24.5 100 104.8 74.0 92.5 55 M-L Hybrid 13 (Moews-Lowe) 90.7 72.4 20.14 30.6 24.5 100 104.8 74.0 92.5 55 M-L Hybrid 13 (Moews-Lowe) 90.7 72.4 20.14 30.6 24.5 100 104.8 74.0 92.5 55 M-L Hybrid 13 (Moews-Lowe) 90.7 72.4 20.14 30.6 24.5 100 104.8 74.0 92.5 55 M-L Hybrid 13 (Moews-Lowe) 90.7 72.4 20.14 30.6 24.5 100 104.8 74.0 92.5 55 M-L Hybrid 13 (Moews-Lowe) 90.7 72.4 20.14 30.6 24.5 100 104.8 78.4 40.5 57 Maland Yellow Dent. 77.3 49.5 36.00 30.4 21.3 77 80.7 83.8 59 Gl.6 0 Stelford's White Cap. 62.0 38.1 38.62 31.8 22.6 88 83.8 61.6 60 Stelford's White Cap. 62.0 38.1 38.62 31.8 23.7 86 90.1 41.2		r Hybrid 78	102.9								99.6
42 Pioneer Hi-Bred 330. 101.6 89.8 11.96 34.8 23.7 100 104.8 96.8 43 Holmes Utility Hybrid 35. 101.6 89.8 11.62 37.5 24.1 98 102.7 97.2 44 Furr Hybrid 77. 100.4 88.7 11.63 33.7 5 24.1 98 102.7 97.2 44 Furr Hybrid 77. 100.4 88.7 11.63 33.7 23.9 99 103.8 96.0 45.5 Funk Hybrid G-19. 99.8 88.2 11.67 30.7 22.1 99 103.8 94.6 6 Iowealth Hybrid G-22. 92.9 87.4 5.88 34.0 22.1 96 100.6 94.6 48 14.H.P. Hybrid 66. 86.6 85.8 91 34.0 22.1 100 104.8 92.9 49 Hoosier Crost Hybrid 422. 90.5 85.1 6.02 32.9 21.8 100 104.8 92.1 50 Funk Hybrid G-25. 89.0 85.0 4.46 35.5 21.1 99 103.8 94.6 50 Funk Hybrid G-25. 89.0 85.0 4.46 35.5 21.1 99 103.8 92.0 51 *Fritseh Bros. Hybrid 731. 97.5 86.4 11.42 33.0 22.4 94 98.5 93.5 52 M-L Hybrid 20 (Moews-Lowe) 94.7 83.9 11.38 31.9 22.4 94 98.5 93.5 53 DeKalb Hybrid 410. 98.8 82.5 16.50 29.0 20.5 97 101.7 89.3 54 Hunt White Dent. 87.2 83.3 4.46 34.5 23.0 71 74.4 90.2 55 M-L Hybrid 13 (Moews-Lowe) 90.7 72.4 20.14 30.6 24.5 100 104.8 74.0 55 M-L Hybrid 13 (Moews-Lowe) 96.0 68.4 28.78 31.4 22.1 100 104.8 74.0 57 Maland Yellow Dent. 83.5 62.5 25.18 30.3 23.3 88 92.2 67.6 60 Stelford's White Cap. 62.0 38.1 38.62 31.8 23.7 86 90.1 41.2	40 Pio	neer Hi-Bred 353	102.1	90.4			19.6		104.8	97.8	99.6
44 Furr Hybrid 77. 100 4 88.7 11.63 33.7 23.9 99 103.8 96.0 45 Funk Hybrid G-19 99.8 88.2 11.67 30.7 22.1 99 103.8 95.5 46 Iowealth Hybrid AQF. 94.6 87.4 7.63 32.5 21.1 99 103.8 94.6 47 Funk Hybrid G-22 92.9 87.4 5.88 34.0 22.1 96 100.6 94.6 48 *1.H.P. Hybrid 66 86.6 85.8 91 34.0 22.1 100 104.8 92.9 94.9 Hoosier Crost Hybrid 422. 90.5 85.1 6.02 32.9 21.8 100 104.8 92.1 50 Funk Hybrid G-25 89.0 85.0 4.46 35.5 21.1 99 103.8 94.6 51 *Fritsch Bros. Hybrid 731. 97.5 86.4 11.42 33.0 22.4 94 98.5 93.5 52 M-L Hybrid 20 (Moews-Lowe) 94.7 83.9 11.38 31.9 22.4 94 89.5 93.5 53 DeKalb Hybrid 410. 98.8 82.5 16.50 29.0 20.5 97 101.7 89.3 54 Hunt White Dent. 87.2 83.3 4.46 34.5 23.0 71 74.4 90.2 55 M-L Hybrid 13 (Moews-Lowe) 90.7 72.4 20.14 30.6 24.5 100 104.8 74.0 90.2 55 M-L Hybrid 13 (Moews-Lowe) 96.0 68.4 28.78 31.4 22.1 100 104.8 74.0 90.2 57 Maland Yellow Dent. 83.5 52.5 25.8 30.8 31.4 22.1 100 104.8 74.0 90.2 57 Maland Yellow Dent. 83.5 52.5 25.8 30.3 23.3 88.9 22.6 66.6 Stelford's White Cap. 62.0 38.1 38.62 31.8 22.6 88 83.8 61.8 60 Stelford's White Cap. 62.0 38.1 38.62 31.8 23.7 86 90.1 41.2	42 Pio	neer Hi-Bred 330	101.6								98.8
48 "I.H.P. Hybrid 66	43 Ho	lmes Utility Hybrid 35	101.6								98.5
48 "1.H.P. Hybrid 66. 86. 86. 85. 8 .91 34. 0 22 1 100 104. 8 92. 9 49 Hoosier Crost Hybrid 422. 90. 5 85. 1 6.02 32. 9 21. 8 100 104. 8 92. 1 50 Funk Hybrid 625. 89. 0 85. 0 4. 46 35. 5 21. 1 99 103. 8 92. 0 51 "Fritsch Bros. Hybrid 731. 97. 5 86. 4 11. 42 33. 0 22. 4 94 98. 5 93. 5 22 M-L Hybrid 20 (Moews-Lowe) 94. 7 83. 9 11. 38 31. 9 22. 4 98 102. 7 90. 8 35. 0 Ekslb Hybrid 410. 98. 8 82. 5 16. 50 29. 0 20. 5 97 101. 7 89. 3 35. 4 46 34. 5 23. 0 71 74. 4 90. 2 35. 5 4 Hunt White Dent. 87. 2 83. 3 4. 46 34. 5 23. 0 71 74. 4 90. 2 35. 5 5 M-L Hybrid 13 (Moews-Lowe) 90. 7 72. 4 20. 14 30. 6 24. 5 100 104. 8 74. 0 92. 5 5 M-L Hybrid 13 (Moews-Lowe) 96. 0 68. 4 28. 78 31. 4 22. 1 100 104. 8 74. 0 57 Maland Yellow Dent. 83. 5 62. 5 25. 18 30. 3 23. 3 88 92. 2 67. 6 4 26. 64 31. 8 22. 5 88 83. 8 61. 6 60 Stelford's White Cap. 62. 0 38. 1 38. 62 31. 8 23. 7 86 90. 1 41. 2	44 Fu	nk Hybrid C 10	00.8				23.9				97.9 97.6
48 "1.H.P. Hybrid 66. 86. 86. 85. 8 .91 34. 0 22 1 100 104. 8 92. 9 49 Hoosier Crost Hybrid 422. 90. 5 85. 1 6.02 32. 9 21. 8 100 104. 8 92. 1 50 Funk Hybrid 625. 89. 0 85. 0 4. 46 35. 5 21. 1 99 103. 8 92. 0 51 "Fritsch Bros. Hybrid 731. 97. 5 86. 4 11. 42 33. 0 22. 4 94 98. 5 93. 5 22 M-L Hybrid 20 (Moews-Lowe) 94. 7 83. 9 11. 38 31. 9 22. 4 98 102. 7 90. 8 35. 0 Ekslb Hybrid 410. 98. 8 82. 5 16. 50 29. 0 20. 5 97 101. 7 89. 3 35. 4 46 34. 5 23. 0 71 74. 4 90. 2 35. 5 4 Hunt White Dent. 87. 2 83. 3 4. 46 34. 5 23. 0 71 74. 4 90. 2 35. 5 5 M-L Hybrid 13 (Moews-Lowe) 90. 7 72. 4 20. 14 30. 6 24. 5 100 104. 8 74. 0 92. 5 5 M-L Hybrid 13 (Moews-Lowe) 96. 0 68. 4 28. 78 31. 4 22. 1 100 104. 8 74. 0 57 Maland Yellow Dent. 83. 5 62. 5 25. 18 30. 3 23. 3 88 92. 2 67. 6 4 26. 64 31. 8 22. 5 88 83. 8 61. 6 60 Stelford's White Cap. 62. 0 38. 1 38. 62 31. 8 23. 7 86 90. 1 41. 2	46 Tox	realth Hybrid AOF	94 6								96.9
48 *I.H.P. Hybrid 66.	47 Fu	nk Hybrid G-22	92.9								96.1
50 Funk Hybrid G-25 89.0	48 *I.H	I.P. Hybrid 66		85.8	.91	34.0	22 1	100	104.8		95.9
51 *Fritsch Bros. Hybrid 731. 97.5	49 Ho	osier Crost Hybrid 422									95.3
52 M-L Hybrid 20 (Moews-Lowe) 94.7 83.9 11.38 31.9 22.4 98 102.7 90.8 103.8 103.8											94.9
53 DeKalb Hybrid 410											94.7 93.8
54 Hunt White Dent 87. 2 83. 3 4.46 34.5 23.0 71 74.4 90.2 55 M-L Hybrid 15 (Moews-Lowe) 90.7 72.4 20.14 30.6 24.5 100 104.8 78.4 56 M-L Hybrid 13 (Moews-Lowe) 96.0 68.4 28.78 31.4 22.1 100 104.8 74.0 57 Maland Yellow Dent 83.5 02.5 25.18 30.3 23.3 88 92.2 67.6 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5	53 De	Kalb Hybrid 410									92.4
55 M-L Hybrid 15 (Moews-Lowe) 90.7 72.4 20.14 30.6 24.5 100 104.8 78.4 56 M-L Hybrid 13 (Moews-Lowe) 96.0 68.4 28.78 31.4 22.1 100 104.8 74.0 57 Maland Yellow Dent 83.5 62.5 25.18 30.3 23.3 88 92.2 67.6 Average of 5 open-pollinated var. 75.7 56.4 26.64 31.8 22.6 88 83.8 61.6 58 Pfingston Yellow Dent 77.3 49.5 36.00 30.4 21.3 77 80.7 53.6 59 Gunn Western Plowman 68.4 48.6 28.94 32.2 21.8 78 81.8 52.6 60 Stelford's White Cap 62.0 38.1 38.62 31.8 23.7 86 90.1 41.2	54 Hu	nt White Dent		83.3	4.46	34.5	23 0		74.4	90.2	86_2
57 Maland Yellow Dent	55 M-	L Hybrid 15 (Moews-Lowe)				30.6		100			85.0
Average of 5 open-pollinated var. 75.7 56.4 26.64 31.8 22.6 88 83.8 61.6 61.6 65.8 Pfingston Yellow Dent							22.1				81.7
58 Pfingston Yellow Dent. 77.3 49.5 36.00 30.4 21.3 77 80.7 53.6 59 Gunn Western Plowman 68.4 48.6 28.94 32.2 21.8 78 81.8 52.6 60 Stelford's White Cap 62.0 38.1 38.62 31.8 23.7 86 90.1 41.2							23.3				73.7
59 Gunn Western Plowman											66.7 60.4
60 Stelford's White Cap 62.0 38.1 38.62 31.8 23.7 86 90.1 41.2											59.9
A of all and in 101 2 00 4 0 25 22 5 00 6 05 4				38.1							53.4
Average of all entries, 101.5 92.4 9.55 55.5 22.0 95.4		Average of all entries	101.3	92.4	9.35	33.5	22.6	95.4			

*Less than 5 bushels of seed sampled.

A difference of less than 5.4 bushels between total yields of any two entries in this table is not significant.

Table 7.—NORTHERN ILLINOIS: Kings Summaries

			Acr	e-yield	Damaged corn in	Mois- ture in	Erect	F	lating for	<u> </u>
Rank	Entry		Total	Sound	sbelled sample	grain at	plants	Erect plants	Sound yield	Genera perform
	(A)	Average yie	ld of	entries s	rown ir	1 1939	and 194	10		
	• • • • • • • • • • • • • • • • • • • •		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Pioneer Hi-Bred 307			98.2	3.66	20.0	96.5	101.8	111.5	109.1
2	Pioneer Hi-Bred 314			97.8	3.44	18.4	96.5	101.8	111.0	108.7
3	Illinois Hybrid 751		100.0	96.4	3.34	19.8	99.0	104.4	109.4	108.2
4	DeKalb Hybrid 615		98.8	95.1	3.50	19.0	100.0	105.5	107.9	107.3
5	Pioneer Hi-Bred 324		99.4	$96.4 \\ 95.9$	2.86	18.5	95.5	100.7	109.4	107.2 107.2
7	Pioneer Hi-Bred 322 Funk Hybrid G-37		99.3 98.8	94.8	$\frac{3.28}{3.91}$	$\frac{18.1}{19.8}$	$97.0 \\ 99.5$	102.3 105.0	$108.9 \\ 107.6$	107.2
8	National Hybrid 117		95.2	93.6	1.54	18.2	97.0	102.3	106.2	105.2
9	DeKalb Hybrid 404A			93.2	4.40	18.4	97.5	102.9	105.8	105.1
10	DeKalb Hybrid 421		99.1	95.8	3.29	18.2	89.0	93.9	108.7	105.0
11	Morgan Hybrid M-52		97.5	94.4	2.94	19.8	92.0	97.1	107.2	104.7
12 13	E. W. Doubet Hybrid D	3	96.3 95.1	92.4 91.9	3.96	$\frac{19.9}{20.1}$	97.5	$102.9 \\ 103.9$	104.9	104.4 104.2
14	Funk Hybrid G-114 National Hybrid 116		94.6	91.9	$\frac{3.21}{2.81}$	19.1	98.5 98.5	103.9	104.3 104.2	104.2
15	I.H.P. Hybrid 66			91.4	.54	19.3	99.5	105.0	103.7	104.0
16	Fire Hisbrid 77		97.0	91.0	5.97	20.4	98.5	103.9	103.3	103.4
17	Iowealth Hybrid AQ		94.3	91.3	2.98	19.2	97.0	102.3	103.6	103.3
18	Pioneer Hi-Bred 330	<u>.</u>	96.2	90.3	6.01	21.1	100.0	105.5	102.5	103.2
19	Pioneer Hi-Bred 330 M-L Hybrid 14 (Moews- Funk Hybrid G-22	Lowe)	93.4	90.1	3.40	20.1	100.0	105.5	102.3	103.1
20 21	Iowealth Hybrid AQF	• • • • • • • • • • • • • •	91.6 91.2	88.8 87.6	$\frac{3.08}{3.82}$	18.8 18.0	96.5 99.5	$101.8 \\ 105.0$	100.8 99.4	101.1 100.8
22	Funk Hybrid G-19	• • • • • • • • • • • • • • •	93.1	86.9	6.28	19.8	96.5	101.8	98.6	99.4
23	M-L Hybrid 15 (Moews-	Lowe)	90.2	80.5	10.72	20.2	99.0	104.4	91.4	94.6
24	M-L Hybrid 13 (Moews-	Lowe)	93.8	80.0	14.52	19.2	100.0	105.5	90.8	94.5
25	Hunt White Dent		77.6	75.6	2.36	21.1	72.5	76.5	85.8	83.5
26_	Maland Yellow Dent		79.9	69.4	12.66	20.1	81.5	86.0	78.8	80.6
27	Average of 5 open-pollina Gunn Western Plowman.	ted varieties	74.4	64.5	13.69	19.9	77.9 78.5	82.2 82.8	73.2	75.4 73.5
28	Stelford's White Cap		$\frac{72.0}{68.1}$	62.0 55.0	14.64 20.80	18.6 20.4	81.0	85.4	62.4	68.2
-0									02 1	00.2
	Average of all entrie	8	93.1	88.1	5.50	19.4	94.8			
	(B) A	verage yield	d of e	ntries gr	rown in	1938,	1939, 1	940		
1	Pioneer Hi-Bred 314		98.6	95.8	2.70	18.3	90.6	103.4	109.9	108.3
2	Pioneer Hi-Bred 322		97.2	94.8	2.36	18.0	90.3	103.1	108.7	107.3
3	Illinois Hybrid 751		95.8	93.2	2.41	20.1	93.8	107.1	106.9	107.0
4	Morgan Hybrid M-52	T	96.8	94.7	1.96	19.7	86.8	99.1	108.6	106.2
5 6	M-L Hybrid 14 (Moews-	Lowe)	94.5 96.6	91.9 94.3	$\frac{2.63}{2.29}$	20.9 18.1	93.8 84.0	$107.1 \\ 95.9$	105.4 108.1	105.8 105.1
7	DeKalb Hybrid 421 National Hybrid 117	• • • • • • • • • • • • • • • • • •	92.8	91.6	1.23	18.4	91.7	104.7	105.0	104.9
8	DeKalb Hybrid 404A	· · · · · · · · · · · · · · · · ·	94.0	91.0	3.00	18.2	92.3	105.4	104.4	104.6
9	Iowealth Hybrid AQF	. 	92.0	89.4	2.68	17.9	93.3	106.5	102.5	103.5
10	Iowealth Hybrid AQ		91.4	89.3	2.02	19.3	90.7	103.5	102.4	102.7
11	National Hybrid 116		90.4	88.5	1.95	18.8	92.5	105.6	101.5	102.5
12 13	Funk Hybrid G-19 M-L Hybrid 15 (Moews-	Lowe)	91.4 89.3	$86.9 \\ 82.7$	4.60 7.22	$\frac{19.3}{19.7}$	91.2 96.5	$104.1 \\ 110.2$	99.7 94.8	100.8 98.6
14	Hunt White Dent			73.9	2.27	20.6	66.7	76.1	84.7	82.6
15	Maland Yellow Dent			71.2	8.62	19.3	74.3	84.8	81.7	82.5
16	Gunn Western Plowman		73.6	66.7	9.95	18.1	73.8	84.3	76.5	78.4
•	Average of 5 open-polling	ted varieties	74.2	67.2	9.71	19.2	71.3	81.4	77.1	78.2
	Average of all entrie	s	90.5	87.2	3.62	19.0	87.6			
	(C) Ave	rage yield o	f entri	ies grow	n in 19	37, 193	8, 1939	1940		
1	Pioneer Hi-Bred 322		96.9	95.0	1.82	18.5	79.2	103.1	109.1	107.6
2	Pioneer Hi-Bred 314		96.5	94.3	2.13	19.2	76.5	99.6	108.3	106.1
3	National Hybrid 117		92.5	91.6	.92	19.6	82.8 86.4	107.8	105.2	105.8
5	Illinois Hybrid 751 Iowealth Hybrid AQ		$92.1 \\ 92.0$	90.1 90.3	1.85 1.62	$\frac{20.2}{19.8}$	80.4 82.8	$112.5 \\ 107.8$	103.4 103.7	105.7 104.7
6	DeKalb Hybrid 421		94.7	92.9	1.76	19.6	72.5	94.4	106.7	103.6
7	Funk Hybrid G-19		91.2	87.8	3.45	19.7	81.1	105.6	100.8	102.0
8	Maland Yellow Dent		77.7	72.3	6.53	20.0	64.8	84 4	83.0	83.5
9	Gunn Western Plowman		74.5	69.4	7.47	18.5	64.9	84.5	79.7	80.9
	Average of 5 open-pollins			68.4	7.38	20.0 19.5	62.4 76.8	81.3	78.5	79.2
	Average of all entrie			87.1	2.76					••••
		ge yield of e								
1	DeKalb Hybrid 421		88.3	86.4	2.12	19.4	78.4	101.2	110.9	108.5
2	Illinois Hybrid 751	• • • • • • • • • • • • •	85.7	83.6	2.34	20.9	86.2	111.2	107.3	108.3
2	Gunn Western Plowman		68.3	63.8	6.51	19.1	68.0	87.7	81.9	83.4
3	Average of 5 open nothing	tad variation		ga n	g 92	20 1	RF 9	24 1	27 7	27 7
	Average of 5 open-polling Average of all entries	sted varieties	68.8	64.0 77.9	0.83 3.66	20.1 19.8	65.2 77.5	84.1	82.2	82.7

Table 8.—WEST NORTH-CENTRAL ILLINOIS: Cambridge

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		Anna	.2.12	Damaged	Mois-	Front	Rating for-		
Ran	k Entry	Total	≻yield Sound	corn in sbelled sample	ture in grain at harvest	Erect plants	Erect	Sound yield	General perform.
_	1940	bu.	bu.	perct.	perct.	perct.	perct.	perct.	-
1			100.2	7.33	21.7	94	100.6	120.0	115.2
2	Pioneer Hi-Bred 313	99.1	96.9	2.17	21.1	100	107.1	116.0	113.8
3	Morgan Hybrid M-52A. Pioneer Hi-Bred 332. Seeber Hybrid 11A.	101.5	$\frac{98.2}{96.2}$	$\frac{3.28}{6.34}$	$19.9 \\ 21.4$	91 97	$97.4 \\ 103.9$	117.6	112.6 112.4
5	Seeber Hybrid 11A.	97.7	95.8	1.94	20.8	97	103.9	$\frac{115.2}{114.7}$	112.0
6	Illinois Hybrid 960 (L. A. Sass)	98.6	96.6	2.07	19.2	92	98.5	115.7	111.4
7	Ioway-Supercorn 123-H*Habn Hybrid 150A	97.5 96.7	$93.5 \\ 93.2$	4.09 3.60	$\frac{17.1}{20.8}$	97 98	103.9 104.9	$112.0 \\ 111.6$	110.0 109.9
9	Funk Hybrid G-212 DeKalb Hybrid 827	95.0	93.5	1.60	20.8	92	98.5	112.0	108.6
10	DeKalb Hybrid 827	92.8	92.0	.84	17.9	96	102.8	110.2	108.4
11	U. S. Hybrid 35 (Ferris). *Null Hybrid N-85. *Illinois Hybrid 600 (I.H.P.).	95.3 96.8	$\frac{92.3}{91.7}$	$\frac{3.12}{5.31}$	$\frac{17.9}{17.0}$	95 97	101.7 103.9	$\frac{110.5}{109.8}$	$\frac{108.3}{108.3}$
13	*Illinois Hybrid 600 (I.H.P.)	94.7	90.7	4.22	19.9	98	104.9	108.6	107.7
14 15	M-L Hybrid 523 (Moews-Lowe) *Holmes Utility Hybrid 50	$96.0 \\ 93.2$	91.0 89.7	$\frac{5.17}{3.74}$	18.3 18.5	96 100	102.8 107.1	109.0 107.4	107.4 107.3
16	*Holmes Utility Hybrid 59 *Sass Hybrid 17 (L. A. Sass). Sass Hybrid 305 (U. G. Sass). Iowealth Hybrid 25R Sass Hybrid 50 (L. A. Sass).	96.2	93.8	2.50	18.5	86	92.1	112.3 107.3	107.2
17	Sass Hybrid 305 (U. G. Sass)	91.7	89.6	2.25	18.3	97	103.9		106.4
18 19	Sass Hybrid 50 (L. A. Sass)	95.7 94.4	90.4 90.0	5.52 4.66	$\frac{18.1}{18.7}$	93 94	99.6 100.6	108.3 107.8	106.1 106.0
20	Sass Hybrid 50 (L. A. Sass)	92.3	89.7	2.82	18.3	92	98.5	107.4	105.2
21 22	Funk Hybrid G-53. Illinois Hybrid 201 (C. Doubet & Son)	88.1 93.5	87.5	.69	19.0	98 98	104.9 104.9	104.8 104.6	104.8
23	Pioneer Hi-Bred 307	93.5	87.3 87.8	$\frac{6.62}{5.56}$	$\frac{17.9}{18.5}$	96	104.9	104.0	104.7 104.5
24	Pioneer Hi-Bred 307. U. S. Hybrid 14 (Ferris) Illinois Hybrid 21 (Frey).	93.2	89.9	3.49	19.1	87	93.2	107.7	104.1
24 26	Illinois Hybrid 21 (Frey)	89.5 90.4	86.3	3.63	19.0	99 97	$106.0 \\ 103.9$	103.4	104.1 103.8
26	Pioneer Hi-Bred 333. U. S. Hybrid 35 (Sieben) Ioway-Supercorn 218-H M-L Hybrid 514 (Moews-Lowe)	89.0	86.6 86.1	4.15 3.29	17.9 17.9	98	106.0	103.7 103.1	103.8
26	Ioway-Supercorn 218-H	88.4	86.0	3.29 2.77	17.3	99	106.0	103.0	103.8
29 30	M-L Hybrid 514 (Moews-Lowe) M-L Hybrid 528 (Moews-Lowe)	89.3 89.2	87.0 86.3	$\frac{2.63}{3.27}$	$\frac{17.3}{17.6}$	95 97	$101.7 \\ 103.9$	104.2 103.4	103.6 103.5
31	Pioneer Hi-Bred 334	91.0	88.0	3.30	19.2	91	97.4	105.4	103.4
31	*Null Hybrid N-73 Morgan Hybrid M-52	92.2	85.9	6.80	19.2 18.7	98	104.9	102.9	103.4
33 34	Morgan Hybrid M-52	93.9 85.7	88.0 85.2	6.28	$\frac{18.7}{18.3}$	90 99	96.4 106.0	$105.4 \\ 102.0$	103.2 103.0
35	DeKalb Hybrid 800 Illinois Hybrid 201 (Holmes) *Stewart Hybrid S-22	90.9	84.9	6.58	17.3	98	104.9	101.7	102.5
36	*Stewart Hybrid S-22	89.2	84.5	5.26	18.5	99	106.0	101.2	102.4
37 38	Funk Hybrid G-169. Holmes Utility Hybrid 35. Lowealth Hybrid 25. *Illinois Hybrid 21 (Dyar) U. S. Hybrid 44 (Ferris) Bear Hybrid OK-72.	86.6 86.9	85.2 84.0	$\frac{1.62}{3.33}$	18.3 18.5	95 98	101.7 104.9	102.0 100.6	101.9 101.7
39	Iowealth Hybrid 25	89.7	87.2	2.74	17.6	87	93.2	104.4	101.6
40 41	*Illinois Hybrid 21 (Dyar)	$\frac{89.2}{88.2}$	83.9 84.2	5.95 4.59	19.0 18.1	97 96	$103.9 \\ 102.8$	100.5 100.8	101.4 101.3
42	Bear Hybrid OK-72	91.5	85.4	6.65	18.7	91	97.4	102.3	101.3
43	Bear Hybrid OK-72. U. S. Hybrid 44 (Sieben). Sass Hybrid 40 (U. G. Sass).	85.1	84.4	.85	19.8	94	100.6	101.1	101.0
43 45	Sass Hybrid 40 (U. G. Sass)	88.0 87.3	83.5 84.7	$\frac{5.16}{2.95}$	17.9 18.5	97 92	103.9 98.5	100.0 101.4	101.0 100.7
46	U. S. Hybrid 44 (Morgan). *Illinois Hybrid 350 (I.H.P.)	91.4	87.7	4.04	17.1	80	85.7	105.0	100.2
47	Illinois Hybrid 374 (Macon Co. Seed Co.)	86.5	84.0	2.92	19.8	90	96.4 98.5	100.6	99.6
48	Morgan Hybrid M-52B	85.4 88.1	83.3 84.5	2.48 4.05	$\frac{19.7}{18.1}$	92 86	98.5 92.1	99.8 101.2	99.5 98.9
50	National Hybrid 119s	87.5	83.4	4 73	19.6	89	95.3	99.9	98.8
51 52	National Hybrid 119s. U. S. Hybrid 5 (Hulting). Illinois Hybrid 546 (Morgan).	83.1 84.3	80.3 81.0	$\frac{3.34}{3.90}$	$\frac{17.2}{19.2}$	96 90	102.8 96.4	$\frac{96.2}{97.0}$	97.8 96.8
52	Bear Hybrid OK-46	80.5	80.0	.63	18.3	93	99.6	95.8	96.8
52	Bear Hybrid OK-46 U. S. Hybrid 63 (Munson)	79.8	79.4	.48	19.0	95	101.7	95.1	96.8
55 56	Funk Hybrid G-63 M-L Hybrid 120 (Moews-Lowe)	83.5 83.3	78.6 79.2	5.81 4.87	19.0 19.6	97 95	103.9 101.7	94.1 94.8	96.6 96.5
57	*Richbred Hybrid 381	83.8	78.1	6.80	24.3	97	103.9	93.5	96.1
58	E. W. Doubet Hybrid D7. Funk Hybrid G-32. Iowealth Hybrid 25W (Yellow).	79.6	78.6	1.23	19.4	95	101.7	94.1	96.0
59 60	Tunk Hybrid G-32	$82.3 \\ 81.9$	79.5 78.5	3.38 4.13	$\frac{21.1}{16.5}$	91 93	97.4 99.6	95.2 94.0	95 8 95 4
61	Crow Hybrid 607	80.5	76.6	4.82	20.4	98	104.9	91.7	95.0
62 63	Crow Hybrid 607 E. W. Doubet Hybrid D6. E. W. Doubet Hybrid D1. DeValls Hybrid 615	79.9	76.1	4.78	18.1	99 92	$\frac{106.0}{98.5}$	91.1 92.0	94.8 93.6
64	DeKalb Hybrid 615	80.4 76.8	76.8 75.1	4.51 2.23	17.3 18.5	92 96	102.8	89.9	93.0
65	DeKalb Hybrid 615 Illinois Hybrid 212 (Monier)	9n 2	73.7	8.20	16.4	98	104.9	88.3	92.4
66 67	*Dyar Hybrid D44K Illinois Hybrid 751 (Joslin) Stiegelmeier Hybrid 702 DeKalb Hybrid 840 DeKalb Hybrid 840 Doubet Yellow Dent	77.4 77.7	$\frac{73.8}{76.2}$	4.59 1.89	$\frac{17.9}{18.5}$	96 86	102.8 92.1	88.4 91.3	92.0 91.5
67	Stiegelmeier Hybrid 702	74.8	73.2	2.08	19.5	96	102.8	87.7	91.5
69	DeKalb Hybrid 840	73.1	68.5	6.26	19.4	97	103.9	82.0	87.5
70 71	Doubet, Yellow Dept	$\frac{72.8}{68.5}$	68.8 67.1	5.44 2.00	$\frac{20.0}{21.4}$	97 81	103.9 86.7	81.7 80.4	87.2 82.0
72		67.5	66.6	1.29	19.5	77	82.4	79.8	80.4
73	Krug	64.9	62.0	4.44	19.8	75	80.3	74.3	75.8
74	Average of 5 open-pollinated varieties Hunt White Dent	60.7 51.5	59.6 50.8	2.03 1.32	19.9 19.0	76.8 78	82.2 83.5	71.3 60.8	74.1 66.5
75	Roeschley Yellow Dent	51.9	51.3	1.10	20.0	73	78.2	61.4	65.6
	Average of all entries	86.8	83.6	3.72	18.9	93.4			

^{*}Less than 5 bushels of seed sampled.

A difference of less than 7.0 bushels between total yields of any two entries in this table is not significant.

Table 9.—WEST NORTH-CENTRAL ILLINOIS: Cambridge Summaries

						J - D .			Juin	
			An	re-yield	Damaged corn in	Mois- ture in	Erect		Rating for	
Rank	Entry		Total		- shelled	grain at harvest		Erect plants	Sound yield	Genera
	(A)	Average yie	ld of	entries	grown i	n 1939	and 19	40		
			bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1 Pioneer	Hi-Bred 313		119.4	114.8	4.20	20.1	93.5	102.0	115.6	112.2
2 Seeber I	Hybrid 11A		112.0	110.6	1.32	19.6	96.5	105.2	111.4	109.8
3 Illinois	Hybrid 960	• • • • • • • • • • • •	111.0	109.1	1.78	18.0	89.5	97.6	109.9	106.8
3 Morgan 5 M-L H	Hybrid M-52A ybrid 523 (Moews	T\	111.1	108.5	2.42	18.6	91.0	99.2	109.3	106.8
6 DeKalb	Hybrid 827	-Lowe)	109.4	106.0 106.0	3.41 .91	18.3 17.1	$97.0 \\ 94.0$	$105.8 \\ 102.5$	106.7 106.7	106.5 105.6
7 Pioneer	Hi-Bred 307		109 0	105.5	3.51	17.6	94.5	103.1	106.2	105.4
7 Illinois	Hybrid 201		109.4	103.8	5.30	17.6	99.0	108.0	104.5	105.4
9 Sass Hy	brid 305 (U. G. S	a s s)	106.8	104.7	2.00	17.7	95.5	104.1	105.4	105.1
0 Funk H	ybrid G-212		106.4	105.1	1.19	19.1	93.0	101.4	105.8	104.7
1 Sass Hy	brid 50 (L. A. Sa	88)	108.6	105.6	2.95	18.0	90.0	98.1	106.3	104.2
2 Iowealtl 2 DeKalb	h Hybrid 25		107.8	105.2	2.50	16.4	90.0	98.1	105.9	104.0
2 Dekaib 4 M-L Hy	Hybrid 800 ybrid 514 (Moews	T	102.6	101.8 102.8	.73	18.1 16.7	$99.5 \\ 95.5$	108.5 104.1	$102.5 \\ 103.5$	104.0 103.6
5 U. S. H	ybrid 44	-Lowe)	104.0	102.8	$\frac{2.09}{1.98}$	17.5	92.6	101.0	104.1	103.0
	ybrid G-169		103.4	102.0	1.68	17.7	96.5	105.2	102.7	103.3
7 U.S. H	vbrid 14 (Ferris)		106.8	103.6	3.10	18.4	90.5	98.7	104.3	102.9
8 M-L H	ybrid 14 (Ferris) . ybrid 120 (Moews	-Lowe)	103.2	101.0	2.57	18.1	95.0	103.6	101.7	102.2
9 Funk H	ybrid G-53	,	102.1	101.0	1.02	17.5	95.0	103.6	101.7	102.1
0 Illinois l	Hybrid 374		104.4	101.1	3.19	18.2	92.0	100.3	101.8	101.4
1 Nationa	l Hybrid 1193		103.2	101.0	2.56	17.8	90.5	98.7	101.7	101.0
E. W. D	Ooubet Hybrid De	<u> </u>	103.3	100.4	3.23	17.4	92.0	100.3	101.1	100.9
B E. W. D U. S. H	Doubet Hybrid D7		100.8	100.1	.80	18.1	92.5	100.9	100.8	100.8
Funk H	ybrid 5ybrid G-32ybrid G-63	• • • • • • • • • • • • • • • • • • • •	101.8	100.1 99.8	1.82	16.9	92.0	100.3	100.8	100.7
6 Funk H	ybrid G-82		102.3	97.9	2.62 4.74	$\frac{19.2}{18.0}$	$91.5 \\ 94.5$	$99.8 \\ 103.1$	$\frac{100.5}{98.6}$	100.3 99.7
7 Morgan	Hybrid M-52		101.8	98.6	3.38	17.6	89.5	97.6	99.3	98.9
8 DeKalb	Hybrid M-52 Hybrid 615 neier Hybrid 702.		97.2	93.9	3.20	16.9	98.0	106.9	94.6	97.7
9 Stiegelm	neier Hybrid 702.		93.8	92.6	1.44	17.8	96.0	104.7	93.2	96.1
0 DeKalb	Hybrid 825 Hybrid 751 Yellow Dent		91.4	89.2	2.90	18.0	98.0	106.9	89.8	94.1
 Illinois l 	Hybrid 751		93.8	90.8	2.96	17.4	91.0	99.2	91.4	93.4
2 Doubet	Yellow Dent		87.4	84.1	3.42	20.3	80.0	87.2	84.7	85.3
3 Krug	- f f 11:		84.1	80.4	4.32	19.0	76.0	82.9	81.0	81.5
Avcrage Roeschle	of 5 open-pollinat	ted varieties	80.4	78.4	2.36	18.6	77.0	84.0	78.9	80.2
	ey Yellow Dent bite Dent		79.4 69.4	77.8 68.9	1.78 .88	$16.7 \\ 17.6$	$73.5 \\ 75.0$	80.2 81.8	78.3 69.4	78.8 72.5
	erage of all entries			99.3	2.51	18.0	91.7			
	(B) A	verage yield	l of e	ntries g	rown in	1938,	1939, 1			
1 Pioneer	Hi-Bred 313		114.2	111.1	2.80	19.5	77.3	95.7	117.1	111.8
2 M-L Hy	brid 523 (Moews	-Lowe)	106.2	103.1	3.04	17.4	88.8	109.9	108.6	108.9
3 DeKalb	Hybrid 827		102.1	101.4	. 62	16.6	87.8	108.7	106.8	107.3
4 M-L Hy 5 Pioneer	brid 514 (Moews	-Lowe)	102.8	101.3	1.41	16.2	87.7	108.5	106.7	107.2
Pioneer U. S. H	Hi-Bred 307	• • • • • • • • • • • • •	100.1	103.1 102.3	3.05	17.0	$\frac{82.5}{82.3}$	102.1	108.6	107.0
7 Illinois I	ybrid 44 Hybrid 960		103.9	102.3	1.57 1.42	$\frac{16.8}{17.1}$	82.3 79.5	101.9 98.4	107.8 107.9	106.3 105.5
Funk H	ybrid G-212		102.2	101.2	.96	18.0	82.5	102.1	106.6	105.5
M-L Hy	brid 120 (Moews	Lowe)	101.0	98.5	1.92	17.3	87.5	108.3	103.8	104.9
Funk H	ybrid G-53		97.8	96.6	1.16	16.7	88.0	108.9	101.8	103.6
I Funk H	ybrid G-63		101.5	98.2	3.28	16.8	81.8	101.2	103.5	102.9
2 Nationa	l Hybrid 1198		98.9	97.3	1.80	17.1	83.2	103.0	102.5	102.6
Morgan	Hybrid M-52		97.8	95.3	2.71	16.7	84.2	104.2	100.4	101.4
4 Funk H 5 DeKalb	ybrid G-32 Hybrid 825	• • • • • • • • • • • • • • • • • • • •	97.1 91.0	95.4 89.5	1.75 1.93	$\frac{18.3}{17.8}$	81.8 89.8	101.2	100.5 94.3	100.7 98.5
B Illinois	Hybrid 751		91.0	89.5 89.4	1.93	17.8 16.9	89.8 85.0	$111.1 \\ 105.2$	94.3	98.5
7 Doubet	Hybrid 751 Yellow Dent		83.2	81.0	2.34	19.3	70.3	87.0	85.3	85.7
8 Krug			81.4	78.9	2.99	18.1	67.7	83.8	83.1	83.3
9 Roeschle	ey Yellow Dent of 5 open-polling		81.0	79.8	1.30	16.4	65.0	80.4	84.1	83.2
 Average 	of 5 open-pollinal	ted varieties	79.8	78.4	1.70	17.9	67.8	83.9	82.6	82.9
0 Hunt W	hite Dent		72.3	71.7	.81	17.1	63.5	78.6	75.6	76.4
Ave	erage of all entries		96.8	94.9	1.94	17.4	80.8			
			00.0				50.0			

(Table 9 is concluded on page 205.)

Table 10.-WEST NORTH-CENTRAL: Cambridge, Resistance to Lodging Caused by Feeding of Corn Rootworms'

Rank	Batry	Plants leaning 30 degrees or more ²	Plants leaning more than 45 degrees	Resistance rating com- pared with averages (hybrids only)	Rank	Entry	Plants leaning 30 degrees or more ²	Plants leaning more than 45 degrees	Resistance rating compared with averages (bybrids only)
	1940	perd.	perd.			1940	рета.	perd.	
-	Ioway-Supercorn 218-H	5.6	0	821	40	Illinois Hybrid 21 (Dyar)	39.8	1.2	109
010	M-L Hybrid 500 (Moews-Lowe)	. 12.3	0	371	41	Dyar Hybrid D44R	42.4	0.0	106
· ·	Holmes Utility Hybrid 35	12.8	0	323	2 6	M-L Hybrid 120 (Moews-Lowe)	30.0	9.6	106
ile rç	Denail Hybrid C.53	0.41	00	277	44	Jours V. Supercorn 123-H	38.0	2.0	103
9	Stewart Hybrid S-22	16.5	,0	277	45	nnson).	41.4	3.4	95
7	U. S. Hybrid 5 (Hulting).	. 16.2	ķ	274	46	U. S. Hybrid 44 (Sieben)	48.1	1.5	06
œ	Illinois Hybrid 21 (Frey)	. 15.0	1.2	264	47		49.2	1.6	90 t
o,	Null Hybrid N-73	. 18.3	wie	242	80 4		51.1	0.0	8 8
15	Himous Hybrid 600 (1.H.P.)	90.6	sic.	877	# 4 5	Dear Hybrid 607	51.0	-00	3 2
12	het	21.3	9	202	213	A. Sass)	50.3	, eo	262
13	DeKalb Hybrid 825	. 22.0	7.	197	52		55.2	4.1	73
14	M-L Hybrid 514 (Moews-Lowe)	. 22.3	6.	190	23	2B	57.9	3.1	72
15		. 24.1	9.0	181	25		59.8	9.70	7.7
12	Funk Hybrid G-63	20.0	ية ح	140	200	Illinois Hypria 900 (L. A. 5388)	57.3	4 4 4 4	60
7 2	Mi-L Hybrid 523 (Moews-Lowe)	2.12	- -	169	22		0.19	9 00	89
18		26.8	, 69	168	28		6.09	3.0	29
20	Hahn Hybrid 150A	. 26.7	9.	164	28		54.5	7.4	99
21	M-L Hybrid 528 (Moews-Lowe)	. 27.8	د ې د	162	8	Macon Co. Seed Co.)	62.2		99
22	DeKalb Hybrid 827	27.4	စ်း	161	9		69.3	× ×	2 2
3 2	Illinois Hybrid 212 (Monier)	1.82.	. <u>.</u>	120	200	Funk Hybrid G-212.	60.7	0.4	200
25	DeKalh Hybrid 840	28.5		147			74.7	. 60	20.00
26	Richbred Hybrid 381.	32.8	0	140	33		71.4	14.6	46
27	E. W. Doubet Hybrid D7	. 27.9	2.5	139	99	Illinois Hybrid 751 (Joslin)	85.0	8.6	44
80	U. S. Hybrid 35 (Ferris)	. 30.9	1.5	135	92	Morgan Hybrid M-52A.	86.4	œ ;	44
53	Funk Hybrid G-169.	. 32.1	1.3	132	8	Sass Hybrid 17 (L. A. Sass)	93.0	13.4	27.0
30	Sass Hybrid 40 (U. G. Sass)	34.5	ø. c	128	69	Illinois Hybrid 350 (I.H.P.)	20.00	8.11	2.6
10	Stiegelmeier Hybrid /UZ	95.9	٥ (222	2	Iowealth Hybrid 25	0.80	10.4	99
33.6	Ti S Hybrid 44 (Fornis)	36.0	ó.u.	124		Average of hybrid entries	40.9	25.5	100
3.5	Pioneer Hi-Bred 332	200	, c	120		average of its old charles	2.0	2	
35	Pioneer Hi-Bred 307	. 38.1	0	120	71	Roeschley Yellow Dent	92.8	35.4	:
36	Illinois Hybrid 201 (C. Doubet & Son)	. 37.0	6.	119	22	Doubet Yellow Dent	77.5	12.0	:
3.	U. S. Hybrid 44 (Morgan)	39.3	9.0	113	25	Krug	92.1	Ø. 47.	:
200	E. W. Doubet Hybrid D1	20.0	7.00	2112	4.5	Hunt White Dent.	92.7	28.0	:
;	A IOUGOI AMILTON COC.	7.22	2	,	:	Company of the compan	2		
			E.1 40	1 1		The state of the s	A		

1 Diabrotica duodecimpundata (F.) and Diabrotica longicornis (Say). A difference of less than 5.2 in this column is not significant. High rating indicates better standing ability.

Table 11.—WEST NORTH-CENTRAL ILLINOIS: Cambridge, Summary of Lodging Caused by Feeding of Corn Rootworms¹

Rank	Entry	Plants leaning 30 degrees or more	Plants leaning 45 degrees or more	Resistance rating com- pared with average ² (bybrida only)	Plants leaning 30 degrees or more
	Average of 1939 and 19	40			Average of 1937, 1939, 1940
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	DeKalb Hybrid 800 U. S. Hybrid 5. Funk Hybrid G-53 M-L Hybrid G-53 M-L Hybrid 514 (Moews-Lowe) DeKalb Hybrid 825 M-L Hybrid 523 (Moews-Lowe) Funk Hybrid 623 (Moews-Lowe) Funk Hybrid G-169 Seeber Hybrid 11A Pioneer Hi-Bred 307: DeKalb Hybrid 827 Illinois Hybrid 827 Illinois Hybrid 305. DeKalb Hybrid 6-63 Sass Hybrid 305. DeKalb Hybrid 615. Stiegelmeier Hybrid 702 Funk Hybrid G-32 U. S. Hybrid 44 Funk Hybrid G-32 U. S. Hybrid 419 Pioneer Hi-Bred 313 Illinois Hybrid 374 M-L Hybrid 120 (Moews-Lowe) Morgan Hybrid M-52. Sass Hybrid 50. Illinois Hybrid 400. U. S. Hybrid 960. U. S. Hybrid 980. U. S. Hybrid 94.	perct. 7.8 11.9 112.2 12.4 13.6 15.7 18.6 19.1 19.6 20.5 23.2 23.2 23.2 24.2 25.7 28.2 24.4 38.7 33.9 38.3 38.3 39.9	perct1 .6 .1.0 .9 .3 .0 .6 .3 .7 .6 .6 .1.2 .8 .4 .8 .5 .3.1 2.4 .9 2.1 2.8 2.3 3.0 1.9 7.8	408 247 230 230 230 206 165 165 165 165 180 127 119 112 109 81 81 80 79 78 76 74 74	perct
28	Morgan Hybrid M-52A Iowealth Hybrid 25. Illinois Hybrid 751.	50.1 50.2 55.9	4.5 8.6 6.5	55 48 47	49.6 65.2
30 31 32	Average of hybrid entries	29.0 63.9 72.6 79.9 80.7	9.0 15.8 25.5 25.6	100	41.2 71.3 79.1 83.7

¹Diabrotica duodecimpunctata (F.) and Diabrotica longicornis (Say).

²Average resistance of all hybrida = 100. High rating indicates increased standing ability.

Table 12.—EAST NORTH-CENTRAL ILLINOIS: Reddick

		Acre	-yield	Damaged corn in	Mois-	Erect -	F	lating for	_
Rank	Entry -	Total	Sound	- shelled sample	grain at harvest	plants	Erect plants	Sound yield	Genera
1940		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
	Hi-Bred 334	90.2	89.1	1.24	20.3	99	100.8	116.5	112.6
2 THolmes U	tility Hybrid by	89.1	88.2	. 97	23.0	100	101.8	115.3	111.9
3 Pioneer F	Hi-Bred 313	90.4	88.2	2.40	24.8	96	97.7	115.3	110.9
4 Iowealth 5 ¹ Hoosier (Hybrid 25R Prost Hybrid 668-L Lybrid 21 (Frey)	87.0 87.7	86.9 86.6	.10 1.29	21.2 23.0	98 99	99.8	113.6	110.2
6 Illinois H	[vbrid 21 (Frev)	87.2	85.7	1.74	22.1	100	100.8 101.8	$\frac{113.2}{112.0}$	110.1 109.5
7 U. S. Hy	brid 35 (Ferris)	85.1	84.8	.32	22.4	100	101.8	110.9	108.6
8 Illinois H	brid 35 (Ferris) (ybrid 972 (Holmes)	84.7	84.4	.36	22.6	100	101.8	110.3	108.2
9 DeKalb	Hybrid 628	87.6 84.7	85.1 84.0	2.87	$\frac{21.2}{23.0}$	97 100	$98.7 \\ 101.8$	111.2	108.1
10 *Illinois H 11 Sass Hyb	Hybrid 628. lybrid 246 (I.H.P.) orid 305 (U. G. Sass)	86.4	83.9	2.88	22.8	100	101.8	$109.8 \\ 109.7$	107.8 107.7
12 Sass Hyb	orid 17 (U. G. Sass)	85.4	84.0	1.61	21.2	99	100.8	109.8	107.6
12 Iowealth	nrid 17 (U. G. Sass). Hybrid 25. brid 14 (Ferris). Hi-Bred 333 rid 50 (L. A. Sass). Hybrid C1 Hybrid C2 brid G-212 Ii-Bred 300 brid 45 (L. A. Sass). Ji-Bred 332 Ji-Bred 332 Ji-Bred 332	84.2	84.0	.18	20.6	99	100.8	109.8	107.6
14 U. S. Hy	brid 14 (Ferris)	85.8	83.6	2.54	21.8	99	100.8	109.3	107.2
15 Pioneer I 16 Sass Hyb	orid 50 (L. A. Sass)	84.1 84.7	83.0 84.2	1.	$\frac{20.2}{22.1}$	100 94	101.8 95.7	108.5 110.1	106.8 106.5
17 Iowealth	Hybrid CI	84.6	83.1	.6 1.79	21.8	98	99.8	108.6	106.4
18 Wan Hori	n Ĥybrid 22	83.2	82.3	1.09	22.8	99	100.8	107.6	105.9
19 Funk Hy	brid G-212	84.4	82.2	2.57	23.2	98	99.8	107.5	105.6
20 *Pioneer I 21 ¹ U. S. Hy	heid 45 (I. A. Sass)	83.4 83.2	81.5 81.4	2.22	$\frac{24.5}{22.8}$	100 99	101.8 100.8	106.5 106.4	105.3 105.0
22 Pioneer I	Hi-Bred 332	81.8	81.1	.80	26.6	99	100.8	106.0	104.7
23 Hulting I	Hybrid 381	80.7	80.6	. 15	20.3	100	101.8	105.4	104.5
24 *Habn Hy	rybrid 150A. Hybrid 821B. Hybrid 366.	82.3	81.3	1.17	26.0	97	98.7	106.3	104.4
25 DeKalb l 26 Hulting l	Hybrid 821B	81.4 81.3	80.6 80.0	1.01 1.55	$\frac{23.8}{21.2}$	99 100	100.8 101.8	105.4 104.6	104.2 103.9
27 Bear Hyl	brid OK-70	83.2	80.2	3.65	21.8	99	100.8	104.8	103.8
28 U. S. Hy	brid OK-70 brid 5 (Stewart) brid 40 (L. A. Sass)	80.4	79.9	. 63	22.4	98	99.8	104.5	103.3
29 Sass Hyb	orid 40 (L. A. Sass)	80.3	79.6	.88	23.0	99	100.8	104.1	103.3
30 Richbred	Hybrid 442. Iybrid 201 (Hahn). brid 514 (Moews-Lowe). brid 13 (Monier).	79.7 79.4	79.0 79.2	.85 .25	26.6	100 99	101.8	103.4	103.0
31 *Illinois H 32 ¹ M-L Hyl	heid 514 (Moowe-Lowe)	79.4	78.8	.72	24.3 21.5	100	100.8 101.8	103.5 103.0	102.8 102.7
33 ¹ U. S. Hy	brid 13 (Monier)	79.6	78.6	1.30	26.0	100	101.8	102.7	102.5
34 U.S. Hy	brid 63 (Coldwater) brid 523 (Moews-Lowe) brid 30 (U. G. Sass)	80.3	78.1	2.75	21.8	100	101.8	102.1	102.0
35 M-L Hyl	brid 523 (Moews-Lowe)	78.3	77.8	. 58	24.8	100	101.8	101.7	101.7
36 Sass Hyb 37 *Crow Hy	orid 30 (U. G. Sass)	78.4 77.7	$\frac{78.2}{77.2}$.28	19.6 21.5	98 100	99.8 101.8	102.2 100.9	101.6 101.1
37 *Funk Hy	brid G-77	78.5	77.1	1.77	23.6	100	101.8	100.8	101.1
39 Bear Hy	brid OK-69	77.0	76.8	. 23	21.2	100	101.8	100.4	100.8
40 Pioneer I	Hi-Bred 307	82.7	78.9	4.60	22.4	92	93.6	103.1	100.7
41 Illinois E	Hybrid 247 (Canterbury)	77.6	76.6	1.28	24.5	100	101.8	100.1	100.5 99.9
42 DeKalb 43 *E. W. De	oubet Hybrid D4	76.3 77.4	76.0 76.6	$\frac{.37}{1.02}$	$\frac{21.8}{21.2}$	100 97	101.8 98.7	99.3 100.1	99.8
44 Holmes	Utility Hybrid 35	75.8	74.8	1.35	21.8	100	101.8	97.8	98.8
45 U.S. Hy	brid 44 (Frey)	75.1	74.7	. 55	24.0	100	101.8	97.6	98.6
46 U. S. Hy	brid 44 (Gentert)	74.7 74.4	74.4 74.2	.41 .21	23.4	99 100	100.8	97.3 97.0	98.2 98.2
46 Pioneer I 48 Crow Hy	heid 607	75.3	74.2	1.61	$\frac{20.6}{26.8}$	100	101.8 101.8	96.9	98.1
49 DeKalb	Hybrid 615	74.4	73.9	. 65	20.3	99	100.8	96.6	97.6
49 Funk Hy	brid G-53	76.1	73.6	3.31	21.8	100	101.8	96.2	97.6
51 DeKalb	brid 638. rbrid GN-77 brid OK-69. Hi-Bred 307. Hybrid 817. Subst Hybrid D4. Utility Hybrid 35. brid 44 (Frey). brid 44 (Frey). brid 44 (Frey). brid 45 (Gentert). Hi-Bred 330. rbrid 607. Hybrid 615. rbrid 615. rbrid 630.	74.9 75.6	73.5 73.7	1.88 2.56	$24.0 \\ 22.6$	100 99	101.8 100.8	96.1 96.3	97.5 97.4
52 Funk Hy 53 M-L Hy	Hybrid 800 /brid G-32 brid 500 (Moews-Lowe) brid OK-79	76.6	73.4	4.19	26.0	99	100.8	95.9	97.1
54 Bear Hy	brid OK-79	73.7	72.9	1.13	22.4	100	101.8	95.3	96.9
oo Denaid	Experimental rivorid of	75 2	72.7	3.28	23.6	100	101.8	95.0	96.7
56 Stiegelme	cier Hybrid 380	73.4	72.7	.91	25.3	99	100.8	95.0	96.4
57 Sibley Fa 58 E. W. D	cier Hybrid 380. arms Hybrid 753B. oubet Hybrid D8. brid 528 (Moews-Lowe). brid 120 (Moews-Lowe).	74.1 72.6	$\frac{72.5}{72.1}$	2.14	22.1 23.6	99 100	100.8 101.8	94.8 94.2	96.3 96.1
59 M-L Hy	brid 528 (Moews-Lowe)	76.6	71.9	6.20	22.1	99	100.8	94.0	95.7
60 M-L Hy	brid 120 (Moews-Lowe)	79.0	71.4	3.28	22.4	100	101.8	93.3	95.4
61 Funk Hy	/brid G-63	71.4	70.9	. 68	25.0	100	101.8	92.7	95.0
62 Funk Hy 63 *Miller H	/brid G-169	$\frac{72.4}{71.8}$	71.4	1.42 1.28	$\frac{22.8}{26.0}$	98 97	99.8 98.7	93.3 92.7	94.9 94.2
64 National	Hybrid 119A	70.8	69.5	1.88	20.3	98	99.8	90.9	93.1
65 Stiegelme	eier Hybrid 702	69.0	68.2	1.09	22.1	99	100.8	89.2	92.1
66 'Funk Hy	brid G-535 (W)	68.2	67.8	.58	24.3	100	101.8	88.6	91.9
67 DeKalb	orld 120 (Moews-Lowe) brid G-63 brid G-169 ybrid 1050 (W) Hybrid 119A eier Hybrid 702 brid G-535 (W) Hybrid 606 brid 550 (Moews-Lowe)	68 4	68.2	.34	23.2	97	98.7	89.2	91.6
68 M-L Hy 69 Krug	Drid 550 (Moews-Lowe)	69.1 72.0	66.7 70.3	3.46 2.40	22.6 23.8	99 83	100.8 84.5	87.2 91.9	90.6 90.1
70 Crow Hy	brid 501 (W)	63.4	63.0	.61	23.6	97	98.7	82.4	86.5
71 ° Miller H	/brid 501 (W) ybrid 1047 (W) Yellow Dent	62.5	61.4	1.72	21.2	92	93.6	80.3	83.6
72 Station	Yellow Dent	60.8	60.6	.36	26.8	94	95.7	79.2	83.3
• A verage	of 5 open-polunated varieties	62.0	61.0	1.50	24.9	89.4	91.0	79.8	82.6
	Yellow Denty Yellow Dent	60.1 61.8	58.8 60.2	2.08 2.58	27.8 24.3	94 87	95.7 88.6	$\frac{76.9}{78.7}$	81.6 81.2
	hite Dent	55.3	55.2	.10	22.1	89	90.6	72.2	76.8
		77.7	76.6	1.50	23.0	98.4			
Ave	rage of all entries	11.1	10.0	1.00	20.0	F. 0%			• • • •

^{*}Less than 5 bushels of seed sampled. Average of 9 plots instead of 10.

Table 13.—EAST NORTH-CENTRAL ILLINOIS: Reddick Summaries

		Acre	-yield	Damaged corn in	Mois- ture in	Erect	R	lating for	
Rank	Entry	Total	Sound	- shelled sample	grain at harvest	plants	Erect plants	Sound yield	Genera perform
	(A) Average yie	ld of e	ntries	grown i	n 1939	and 194	\$ 0		
	TV 70 1040	bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1 Pi	ioneer Hi-Bred 313	87.0	85.5	1.76	18.0	94.5	97.8	111.0	107.7
2 [1]	. S. Hybrid 14 (Ferris)linois Hybrid 972 (Holmes)	85.8 84.5	83.8 83.9	2.31 .73	$\frac{16.8}{17.6}$	99.5 98.5	$103.0 \\ 102.0$	$108.8 \\ 109.0$	107.4 107.2
4 Io	wealth Hybrid 25	83.8	83.4	.31	16.1	98.5	102.0	108.3	106.7
5 D	eKalb Hybrid 628	84.5	83.2	1.52	16.4	96 0	99.4	108.1	105.9
6 lo	wealth Hybrid CI	84.1	82.9	1.38	16.8	96.5	99.9	107.7	105.8
7 Sa 7 Fr	inios rybrid 9/2 (Holmes) wealth Hybrid 628 bwealth Hybrid 628 bwealth Hybrid CI ass Hybrid 50 (L. A. Sass) unk Hybrid G-212 ear Hybrid OK 60	$82.6 \\ 82.6$	$82.2 \\ 81.4$.57 1.42	$\frac{17.1}{17.6}$	94.5 98.0	$97.8 \\ 101.4$	106.8 105.7	104.6 104.6
9 D	cat Try bild Oit-05	81.4	81.1	.33	17.5	98.5	102.0	105.3	104.5
10 B∈	ear Hybrid OK-70	82.6	80.9	2.12	18.1	99.0	102.5	105.1	104.4
10 M 12 M	I-L Hybrid 514 (Moews-Lowe) I-L Hybrid 523 (Moews-Lowe)	$81.1 \\ 81.8$	80.7 80.8	.46 1.18	$\frac{16.6}{19.3}$	$99.5 \\ 99.0$	$103.0 \\ 102.5$	104.8 104.9	104.4 104.3
13 F	unk Hybrid G-32	81.1	80.0	1.41	17.0	98.5	102.0	103.9	103.4
14 U	. S. Hybrid 13	80.8	79.8	1.27	19.6	98.5	102.0	103.6	103.2
15 U. 16 U.	S. Hybrid 35	$79.9 \\ 80.2$	79.4 80.0	.54 .34	$\frac{17.2}{17.1}$	99.5 97.0	$103.0 \\ 100.4$	$103.1 \\ 103.9$	103.1 103.0
17 Ü	S. Hybrid 45 (L. A. Sass)	80.6	79.4	1.52	17.4	96.5	99.9	103.1	102.3
18 U	. S. Hybrid 63	78.6	76.6	2.70	16.6	100.0	103.5	99.5	100.5
19 Pi 20 Ss	ioneer Hi-Bred 307	80.2	78.1	2.53	17.0	94.0	97.3	101.4	100.4
20 Si 21 D	eKalh Hybrid 615	77.7 76.4	77.0 76.2	.88 .42	17.4 15.8	97.5 99.5	100.9 103.0	$100.0 \\ 99.0$	100.2 100.0
22 Fı	unk Hybrid G-169	76.6	75.6	1.42	17.8	99.0	102.5	98.2	99.3
23 St	tiegelmeier Hybrid 380	76.4	76.0	.56	19.1	97.5	100.9	98.7	99.2
23 U. 25 E.	W Doubet Hybrid D8	76.3 76.1	75.8 74.5	. 65 1 . 96	$17.9 \\ 17.4$	$\frac{98.2}{100.0}$	101.7 103.5	$98.4 \\ 96.8$	99.2 98.5
26 Si	bley Farms Hybrid 753B	76.1	75.0	1.42	17.5	97.5	100.9	97.4	98.3
27 St	tiegelmeier Hybrid 702	74.8	74.4	. 66	16.8	99.5	103.0	96.6	98.2
28 E. 29 Pi	I-L Hybrid 523 (Moews-Lowe) unk Hybrid G-32 S. Hybrid G-32 S. Hybrid 13 S. Hybrid 55 S. Hybrid 5 S. Hybrid 5 S. Hybrid 65 S. Hybrid 61 S. Hybrid 61 S. Hybrid 61 S. Hybrid 615 Unk Hybrid 615 Unk Hybrid 616 Unk Hybrid 616 Unk Hybrid 617 S. Hybrid 40 W. Doubet Hybrid 28 Unk Hybrid 753B Usegelmeier Hybrid 753B Usegelmeier Hybrid 702 W. Doubet Hybrid D4 Uner Hi-Bred 330 Uner Hi-Bred 330 Uner Hi-Bred 330 Unioner Hi-Bred 330 Unio	$75.4 \\ 72.2$	$\frac{74.7}{72.0}$.86	$\frac{16.2}{15.8}$	$97.5 \\ 100.0$	100.9 103.5	$97.0 \\ 93.5$	98.0 96.0
30 D	eKalb Hybrid 606	71.5	71.2	.41	18.5	96.0	99.4	92.5	94.2
31 K	rug	71.4	70.2	1.72	19.6	86.0	89.0	91.2	90.6
32 Ci 33 R	row Hybrid 501 (W)	68.4 67.4	67.9 66.5	.74 1.42	$17.6 \\ 18.7$	94.0 86.5	$97.3 \\ 89.5$	88.2 86.4	90.5 87.2
34 D	oubet Yellow Dent	66.4	65.4	1.51	19.6	90.5	93.7	84.9	87.1
• A:	row Hybrid 501 (W) oeschley Yellow Dent oubet Yellow Dent verage of 5 open-pollinated varieties	65.6	64.8	1.06	19.2	87.9	91.0	84.2	85.9
35 H	unt White Dent	59.9 77.9	59.6 77.0	.45 1.14	16.9 17.5	85.0 96.6	88.0	77.4	80.1
							1		• • • •
1 D	(B) Average yield							110.0	111.0
1 Pi	ioneer Hi-Bred 313	84.0 80.1	82.5 79.8	1.67	$\frac{16.5}{15.3}$	$88.0 \\ 94.0$	$102.1 \\ 109.0$	$\frac{113.9}{110.2}$	111.0 109.9
3 M	I-L Hybrid 523 (Moews-Lowe)	77.8	77.1	.80	17.5	90.6	105.1	106.5	106.2
4 D	aValb Usrbaid 699	70 7	77.9	1.02	15.8	87.5	101.5	107.6	106.1
4 Fr	unk Hybrid G-212	78.8 78.1	77.1 77.1	$\frac{2.21}{1.34}$	15.8 15.8	$90.3 \\ 90.5$	$104.8 \\ 105.0$	106.5 106.5	106.1 106.1
7 F	unk Hybrid G-32.	76.6	75.8	1.10	15.8	92.2	107.0	104.7	105.3
8 P	ioneer Hi-Bred 307	77.9	76.4	1.84	15.7	87.3	101.3	105.5	104.4
9 U 10 U	weakin Ayorid G-212 weakth Hybrid CI unk Hybrid G-32 ioneer Hi-Bred 307 S. Hybrid 35 S. Hybrid 35 S. Hybrid 44 eKalb Hybrid 606	74.4 73.4	73.5 72.9	1.31 .61	16.4 16.5	$92.7 \\ 89.9$	107.5 104.3	101.5 100.7	103.0 101.6
ii Ď	eKalb Hybrid 606	71.6	71.1	.71	17.1	85.7	99.4	98.2	98.5
12 K	rugoeschley Yellow Dent		65.4	1.26	18.4	73.8	85.6	90.3	89.1
13 R	oeschley Yellow Dent	64.9 61.8	64.2	1.12	17.8	76.8 77.3	89.1 89.7	88.7 84.3	88.8 85.6
14 D	verage of 5 open-pollinated varieties	60.7	61.0 59.5	1.27 2.10	18.0 17.8	80.2	93.0	82.2	84.9
	unt White Dent	57.4	56.5	1.56	16.2	73.3	85.0	78.0	79.8
	Average of all entries	73 . 4	72.4	1.27	16.6	86.2			••••
	(C) Average yield of	entri	es grov	vn in 19	37, 193	8, 1939	, 1940		
1 F	unk Hybrid G-212. ioneer Hi-Bred 307.	76.7	75.4	1.70	15.6	86.5	108.3	107.7	107.8
2 P	loneer mi-Bred 307	76.9 76.3	75.7 75.5	1.44	15.4 15.9	84.5 82.4	105.8 103.1	$108.1 \\ 107.9$	107.5 106.7
3 F	unk Hybrid G-32	74.5	73.9	.83	15.8	87.9	110.0	105.6	106.7
5 U	S. Hybrid 44	72.9	72.5	.51	16.4	85.2	106.6	103.6	104.4
6 D	leKalb Hybrid 628. unk Hybrid G-32 S. Hybrid 44. leKalb Hybrid 606. loeschley Yellow Dent	69.2	68.8	.54	16.8	79.8	99.9	98.3	98.7
8 K	rug	64.2 66.0	63.7 65.4	. 91	$\frac{17.8}{18.4}$	75.6 64.9	94.6 81.2	91.0 93.4	91.9 90.4
• A	verage of 5 open-pollinated varieties	61.3	60.7	1.00	18.1	71.0	88.9	86.7	87.2
9 D	Ooubet Yellow Dent	60.2	59.2	1.68	17.9	72.1	90.2	84.6	86.0
	Average of all entries	70.8	70.0	1.06	16.7	79.9			

Table 14.—WEST-CENTRAL ILLINOIS: Littleton

		Acre	-yield	Damaged corn in	ture in	Erect -	F	lating for	
Rank	Entry	Total	Sound	- shelled sample	grain at harvest	plants	Erect plants	Sound yield	Genera perfora
	1940	bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1 '	Illinois Hybrid 247 (I.H.P.)	94.0	93.3	.72	18.0	100	100.4	114.6	111.1
2	Pioneer Hi-Bred 332. Illinois Hybrid 877 (Burrus). Illinois Hybrid 960 (L. A. Sass).	92.5	92.2	.36	21.0	100	100.4	113.3	110.1
3	Illinois Hybrid 060 (T. A. Saca)	92.0	91.5	.52	15.8	100	100.4	$112.4 \\ 112.4$	109.4 108.9
5	Morgan Hubrid M.524	92.3 91.4	91.5 90.3	.82 1.17	18.0	98 100	98.4 100.4	110.9	108.3
6	Morgan Hybrid M-52A. U. S. Hybrid 13 (Huey Seed Co.)*Illinois Hybrid 246 (I.H.P.)	90.9	90.2	.82	$\frac{18.0}{17.2}$	100	100.4	110.8	108.2
7 '	Illinois Hybrid 246 (I.H.P.)	91.1	89.6	1.66	18.5	100	100.4	110.1	107.7
8	Ploneer Hi-Bred 313	89.5	88.1	1.60	20.0	99	99.4	108.2	106.0
9	Illinois Hybrid 805 (Holmes)	88.1	87.5 87.3	.73	18.5	100	100.4	107.5 107.2	105.7
10	Illinois Hybrid 201 (Wilson)	87.4	87.3	. 15	17.5	100	100.4	107.2	105.5
11	U. S. Hybrid 14 (Ferris). Illinois Hybrid 21 (Huey Seed Co.)	87.6	87.2	.42	19.0	100	100.4	107.1	105.4
$\frac{12}{12}$	N. II The Late N 54	87.1	86.7	.42	17.2	100 100	100.4 100.4	106.5 106.5	105.0 105.0
14	Null Hybrid N-54. Illinois Hybrid 499 (Wilson)	87.1 86.8	86.7 86.6	.22	19.4 20.7	99	99.4	106.4	104.6
15	Null Hybrid N-16	87.5	86.2	1.51	17.5	100	100.4	105.9	104.5
15	Null Hybrid N-16. U. S. Hybrid 35 (Huey Seed Co.)	86.7	86.2	.57	16.9	100	100.4	105.9	104.5
15 '	Richbred Hybrid 381	86.4	86.2	. 23	18.8	100	100.4	105.9	104.5
18	Richbred Hybrid 381. Funk Hybrid G-212.	85.9	85.8	.15	19.4	100	100.4	105.4	104.2
19 1	"Pioneer Hi-Bred 300	X6 2	85.5	.76	19.4	100	100.4	105.0	103.8
20	DeKalb Experimental Hybrid 83	86.2	84.9	1.52	19.4	100	100 4	104.3	103.3
21	Bear Hybrid OK-72	86.9	84.7	2.51	17.5	100	100.4	104.1	103.2
22 23	U. S. Hybrid 35 (Ferris)	86.0	84.3	1.93	17.5	100	100.4	103.6	102.8
23 24	Crow Hubrid 600	84.2 84.2	83.9 83.8	.39	19.0 15.9	100 100	100.4 100.4	$103.1 \\ 102.9$	102.4 102.3
25	II S Hybrid 13 (C. Doubet & Son)	85.0	83.6	1.60	18.8	100	100.4	102.7	102.1
25	M-L Hybrid 523 (Moews-Lowe)	83.9	83.6	.33	18.8	100	100.4	102.7	102.1
25 25	M-L Hybrid 500 (Moews-Lowe)	84.4	83.5	1.01	21.0	100	100.4	102.6	102.1
25	Stiegelmeier Hybrid 38	84.3	83.5	.94	19.0	100	100.4	102.6	102.1
29	DeKalb Hybrid 827	84.2	83.3	1.03	17.5	100	100.4	102.3	101.8
29	DeKalb Experimental Hybrid 83. Bear Hybrid 0K-72. U. S. Hybrid 35 (Ferris). Crow Hybrid 607. Crow Hybrid 607. Crow Hybrid 608. U. S. Hybrid 32 (Moews-Lowe) M-L Hybrid 523 (Moews-Lowe). M-L Hybrid 520 (Moews-Lowe). Stiegelmeier Hybrid 38. DeKalb Hybrid 827. Iowealth Hybrid 29A. Ill. Hybrid 201 (Macon Co. Seed Co.). U. S. Hybrid 35 (Burrus). Bear Hybrid 0K-42. Holmes Utility Hybrid 69. Seeber Hybrid 45. E. W. Doubet Hybrid D49. DeKalb Hybrid 816. Kelly Hybrid K-374. Illinois Hybrid 200 (Mountjoy).	83.7	83.2	. 65	18.3	100	100.4	102.2	101.8
31	Ill. Hybrid 201 (Macon Co. Seed Co.)	83.8	83.0	.92	18.3	100	100.4	102.0	101.6
32	U. S. Hybrid 35 (Burrus)	85.7	82.6	3.60	17.8	100	100.4	101.5	101 2
32 '	Bear Hybrid OK-42	82.8	82.6	.28	19.0	100 100	100.4 100.4	101.5	101.2 101.2
32 ¹ 32	Socher Hubrid 45	83.8 83.3	82.5 82.5	1.50 1.00	17.2 20.4	100	100.4	101.4 101.4	101.2
36 '	•F W Doubet Hubrid D40	83.3	82.8	.61	20.0	99	99.4	101.7	101.1
37	DeKelb Hubrid 816	82.7	82.1	.75	19.4	100	100.4	100.9	100.8
38	Kelly Hybrid K-374	82.2	81.5	.89	16.9	100	100.4	100.1	100.2
39	Illinois Hybrid 200 (Mountjoy)	81.5	80.9	.68	17.5	100	100.4	99.4	99.6
40 '	Pioneer Hi-Bred 336	83.1	80.6	3.02	19.0	100	100.4	99.0	99.4
40	Kelly Hybrid K-374. Illinois Hybrid 200 (Mountjoy). Pioneer Hi-Bred 336. U. S. Hybrid 5 (Mountjoy). Pioneer Hi-Bred 307. Macon Hybrid 666.	81.0	80.6	.46	17.8	100	100.4	99.0	99.4
42	Pioneer Hi-Bred 307	85.6	80.5	6.01	17 2	100	100.4	98.9	99.3
43	Macon Hybrid 666	82.6	79.5	3.74	17.8	100	100.4	97.7	98.4
43	M-L Hybrid 514 (Moews-Lowe)	80.9	79.5	1.74	17.2 19.7	100	100.4 100.4	97.7 97.3	98.4 98.1
45 46	Waller Herbrid K 100	79.7 79.5	79.2 79.0	. 65 . 67	18.2	100 100	100.4	97.3	97.9
47	Pioneer Hi-Rrad 333	80.5	78.9	1.95	16.9	100	100.4	96.9	97.8
47	Funk Hybrid G-80	80.1	78.9	1.50	18.9	100	100.4	96.9	97.8
47	Illinois Hybrid 546 (Morgan)	79.1	78.9	.20	19.0	100	100.4	96.9	97.8
50	Bear Hybrid OK-79	79.5	79.2	.37	16.7	98	98.4	97.3	97.6
50	Funk Hybrid G-53	79.0	78.7	.43	17.8	100	100.4	96.7	97.6
52	DeKalb Hybrid 847	80 2	78.5	2.06	18.8	100	100.4	96.4	97.4
53	Noneer Hi-Bred 307 Macon Hybrid 666 M-L Hybrid 514 (Moews-Lowe) Hulting Hybrid 380 Kelly Hybrid K-100. Pioneer Hi-Bred 333 Funk Hybrid G-80. Illinois Hybrid G-80. Illinois Hybrid G-87 Funk Hybrid G-98 Funk Hybrid G-81 Funk Hybrid G-88 Funk Fupbrid G-88 Funk Hybrid G-81 Funk Hybrid G-81 Funk Hybrid G-81 Funk Hybrid G-80 Funk Hybrid G-80 Funk Hybrid G-81 Funk Hybrid G-80 Funk Hyb	80.6	78.6	2.47	17.2	99	99.4	96.6	97.3
53 '	Null-Vollmer Hybrid NV-47	79.2	78.4	1.01	18.3	100	100.4	96.3	97.3 96.8
55 56	National Hybrid 129	78.3 78.8	77.8 77.6	.67 1.50	18.7 16.6	100 100	100.4 100.4	95.6 95.3	96.6
57	Doubet Vellow Dept	78.3	78.0	.35	19.2	98	98.4	95.8	96.4
57	Illinois Hybrid 126 (Oakes)	79.7	77.3	2.99	18.7	100	100.4	95.0	96.4
57	DeKalb Hybrid 899	77.6	77.3	.42	22.4	100	100.4	95.0	96.4
60 '	E. W. Doubet Hybrid CR-47	77.5	76.8	.87	22.4 17.5	100	100.4	94.3	95.8
61	Hulting Hybrid 366	77.4	76.4	1.35	18.7	100	100.4	93.9	95.5
62	Iowealth Hybrid 29B	77.3	76.3	1.25	19.8	100	100.4	93.7	95.4
63	Null-Vollmer Hybrid NV-97 (Vollmer).	76.2	76.1	.08	17.5	100	100.4	93.5	95.2
64	Funk Hybrid G-94	7 .	75.8	.39	20.4	100	100.4	93.1	94.9
64	Punk Hybrid G-81	76.0	75.8	.25	19.5	100	100.4	93.1	94.5
66 67	E W Doubet Hubrid D10	75.6 76.6	75.3 75.1	1.96	19.5	100 100	100.4 100.4	$92.5 \\ 92.3$	94.3
68	Funk Hybrid G-160	75.1	74.7	.58	19.4 17.3	100	100.4	91.8	94.0
69	Canterbury Yellow Dent	75.3	74.6	.98	21.3	99	99.4	91.6	93.6
70	Station Yellow Dent	75.5	75.2	.44	20.4	94	94.4	92.4	92.9
· •	Average of 5 open-pollinated varieties	75.1	74.5	.81	20.5	96.4	96.8	91.5	92.9
71	Mountjoy Utility Dent	74.8	74.2	. 85	20.7	96	96.4	91.2	92.5
71	Morgan Hybrid M-180	73.6	73.2	.56	19.3	100	100.4	89.9	92.5
73	Funk Hybrid G-81. DeKalb Hybrid 388. E. W. Doubet Hybrid D10. Funk Hybrid G-169. Canterbury Yellow Dent. Station Yellow Dent. Average of 5 open-pollinated varieties. Mountjoy Utility Dent. Morgan Hybrid M-180. M-L Hybrid 830 (Moews-Lowe). Sommer Yellow Dent. Bear Hybrid OK-59.	72.3	71.7	. 85	19.7	100	100.4	88.1	91.2
74	Sommer Yellow Dent	71.6	70.6	1.44	23.0	95	95.4	86.7	88.9
75 '	Bear Hybrid OK-59	66.8	66.4	.57	22.8	100	100.4	81.6	86.3
					18.7	99.6			

^{*}Less than 5 bushels of seed sampled.

Table 15.—WEST-CENTRAL ILLINOIS: Littleton Summaries

		Aora	vield	Damaged corn in	Mois- ture in	Erect	R	lating for	
Rank	Entry -	Total	Sound	- shelled sample	grain at	plants	Erect plants	Sound yield	Genera
	(A) Average yiel	d of e	ntries g		n 1939	and 194			•
_		bи.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Null Hybrid N-16. Null Hybrid N-54. Bear Hybrid OK-79. U. S. Hybrid 13. Bear Hybrid 13. Bear Hybrid 201. Stiegelmeier Hybrid 38. Funk Hybrid G-80. Crow Hybrid 607. U. S. Hybrid 14 (Ferris) Illinois Hybrid 200. Funk Hybrid G-212. U. S. Hybrid 5 (Mountjoy) DeKalb Hybrid 816. DeKalb Hybrid 827.	95.4	93.6	1.96	15.0	99.5	103.8	106.9	106.1
2	Null Hybrid N-54	94.2	93.6	. 60	16.2	97.0	101.2	106.9	105.5
3	Bear Hybrid OK-79	93.1	92.6	.40	14.6	98.5	102.7	105.7	105.0
5	U. S. Hybrid 13	93.1 93.2	92.4	.78	15.4 19.8	97.8 98.5	102.0	105.5 104.8	104.6
6	Illinois Hybrid 201	93.2	$\frac{91.8}{91.5}$	1.50 .52	15.8	95.5	102.7 99.6	104.5	104.3 103.3
7	Stiegelmeier Hybrid 38	90.7	90.0	.80	16.0	99.5	103.8	102.7	103.0
8	Funk Hybrid G-80	92.1	90.4	1.83	17.1	97.0	101.2	103.2	102.7
9	Crow Hybrid 607	91.7	91.4	.30	16.2	93.0	97.0	104.3	102.5
9 11	U. S. Hybrid 14 (Ferris)	90.3	89.9	.41	16.2	98.0	102.2	102.6	102.5
12	Funk Hybrid G-212	$\frac{90.8}{90.2}$	$\frac{90.2}{89.6}$.57 .70	15.6 15.9	$\frac{96.5}{98.0}$	$100.6 \\ 102.2$	103.0	102.4 102.3
13	U. S. Hybrid 5 (Mountioy)	89.8	89.1	.72	15.4	98.5	102.7	$102.3 \\ 101.7$	102.0
14	DeKalb Hybrid 816	90.4	89.1	1.48	16.3	98.0	102.2	101.7	101.8
14	DeKalb Hybrid 827 U. S. Hybrid 35 Kelly Hybrid K-100 Funk Hybrid G-81	89.7	88.9	.89	15.0	98.5	102.7	101.5	101.8
16	U. S. Hybrid 35	89.6	88.6	1.21	14.5	98.8	103.0	101.1	101.6
16 18	Funk Hubrid C 81	89.4 89.1	88.4 88.0	1.08 1.08	$\frac{16.2}{17.1}$	$99.5 \\ 97.0$	103.8 101.2	100.9 100.5	101.6
19	Illinois Hybrid 400	89.3	89.0	.31	17.2	93.8	97.8	101.6	100.7 100.6
20	E. W. Doubet Hybrid CR-47	88.6	87.6	1.07	15.2	97.5	101.7	100.0	100.4
21	Null-Vollmer Hybrid NV-97	87.8	87.6	. 13	14.8	97.0	101.2	100.0	100.3
22	Stiegelmeier Hybrid 901	87.2	86.6	.87	14.0	99.0	103.2	98.9	100.0
23	Illinois Hybrid 499. E. W. Doubet Hybrid CR-47. Null-Vollmer Hybrid NV-97. Stiegelmeier Hybrid 901. Crow Hybrid 608. Pioneer His.Bred 313.	86.8	86.4	. 52	14.2	98.5	102.7	98.6	99.6
24 24	Pioneer Hi-Bred 313. DeKalb Hybrid 888 Funk Hybrid G-53. Illinois Hybrid 126 (Oakes).	90.1	89.2	1.03	16.2	88.5 96.0	92.3	101.8	99.4
26	Funk Hubrid G-53	$87.2 \\ 86.4$	$86.8 \\ 86.1$.43	$\frac{16.5}{15.0}$	98.0	$100.1 \\ 102.2$	$\frac{99.1}{98.3}$	99.4 99.3
27	Illinois Hybrid 126 (Oakes)	88.0	86.5	1.80	15.8	96.5	100.6	98.7	99.2
28	Illinois Hybrid 960	88.2	87.2	1.11	15.1	93.2	97.2	99.5	98.9
29	Pioneer Hi-Bred 307	88.9	85.8	3.62	14.8	97.0	101.2	97.9	98.7
29	Funk Hybrid G-94. E. W. Doubet Hybrid D10. M-L Hybrid 514 (Moews-Lowe).	85.2	85.0	$\frac{.37}{1.38}$	17.6	99.5	103.8	97.0	98.7
31	E. W. Doubet Hybrid D10	84.7	83.6		16.2	99.0	103.2	95.4	97.4
32 33	M-L Hydrid 514 (Moews-Lowe)	84.6 85.0	83.6 83.8	1.10 1.20	14.7 16.3	98.0 89.0	102.2 92.8	95.4 95.7	97.1 95.0
34	Doubet Yellow Dent	81.6	80.9	.84	17.4	88.5	92.3	92.4	92.4
Ĭ.	Average of 5 open-pollinated varieties	81.3	80.5	.97	17.4	87.3	91.0	91.9	91.7
35	Average of 5 open-pollinated varieties Mountjoy Utility Dent	81.5	80.7	1.01	17.4 17.2	86.5	90.2	92.1	91.6
36	Canterbury Yellow Dent	80.0	79.2	1.00	18.3	90.0	93.9	90.4	91.3
37	Sommer Yellow Dent	78.5	77.9	.82	19.2	82.5	86.0	88.9	88.2
_	Average of all entries	88.5	87.6	.97	16.1	95.9			
	(B) Average yield	of en	tries g	rown in	1938,	1939, 1	940		
1	U. S. Hybrid 13	84.9	84.1	.99	16.5	84.0	107.4	110.4	109.6
2		81.4	80.4	1.20	15.8	84.7	108.3	105.5	106.2
3	Funk Hybrid G-212	81.1	80.5	. 79	16.2	81.5	104.2	105.6	105.2
5	Diopera Hi Pred 212	80.1 81.1	79.1	1.31	15.8	84.3	107.8	103.8	104.8
6	II. S. Hybrid 5	79.6	80.4 78.6	.77 1.31	$\frac{16.0}{15.7}$	$72.7 \\ 81.3$	93.0 104.0	$105.5 \\ 103.1$	103.4 103.3
7	U. S. Hybrid G-212 DeKalb Hybrid 827 Pioneer Hi-Bred 313. U. S. Hybrid 5. M-L Hybrid 514 (Moews-Lowe). Pioneer Hi-Bred 307.	79.1	78.1	1.34	15.2	82.3	105.2	102.5	103.3
8	Pioneer Hi-Bred 307	80.6	78.2	3.03	15.5	80.3	102.7	102.6	102.6
8	Funk Hybrid G-94 Illinois Hybrid 960 Funk Hybrid G-53	77.4	76.8	.91	17.9	84.3	107.8	100.8	102.6
10	Illinois Hybrid 960	79.1	78.1	1.24	15.6	78.0	99.7	102.5	101.8
		76.2	75.6	1.00	15.4	85.0	108.7	99.2	101.6
11	Funk Hybrid G-53						89.5	91.5	91.0
11 12	Doubet Yellow Dent	70.6	69.7	1.14	17.4	70.0	90.0		
11	Station Yellow Dent	70.6 70.4	69.7 69.4	1.73	17.7	70.3	89.9	91.1	90.8
11 12	Station Yellow Dent	70.6 70.4 69.0	69.7 69.4 68.2	1.73 1.10	17.7 18.0	70.3 69.1	89.9 88.4	91.1 89.5	90.8 89.2
11 12 13	Station Yellow Dent	70.6 70.4	69.7 69.4	1.73	17.7	70.3	89.9	91.1	90.8
11 12 13 14	Station Yellow Dent. Station Yellow Dent. Average of 5 open-pollinated varieties Mountjoy Utility Dent.	70.6 70.4 69.0 68.5	69.7 69.4 68.2 67.9	1.73 1.10 .94	17.7 18.0 18.1	70.3 69.1 68.3	89.9 88.4 87.3	91.1 89.5 89.1	90.8 89.2 88.6
11 12 13 14	Station Yellow Dent. Average of 5 open-pollinated varieties Mountjoy Utility Dent. Sommer Yellow Dent.	70.6 70.4 69.0 68.5 67.4 77.2	69.7 69.4 68.2 67.9 66.7 76.2	1.73 1.10 .94 1.10 1.25	17.7 18.0 18.1 19.3 16.5	70.3 69.1 68.3 65.3 78.2	89.9 88.4 87.3 83.5	91.1 89.5 89.1 87.5	90.8 89.2 88.6 86.5
11 12 13 14 15	Station Yellow Dent. Average of 5 open-pollinated varieties Mountjoy Utility Dent. Sommer Yellow Dent. Average of all entries. (C) Average yield of Funk Hybrid G-212.	70.6 70.4 69.0 68.5 67.4 77.2	69.7 69.4 68.2 67.9 66.7 76.2 s grow	1.73 1.10 .94 1.10 1.25 vn in 19	17.7 18.0 18.1 19.3 16.5 37, 193	70.3 69.1 68.3 65.3 78.2 8, 1939,	89.9 88.4 87.3 83.5 1940 111.6	91.1 89.5 89.1 87.5	90.8 89.2 88.6 86.5
11 12 13 14 15	Doublet Fellow Dent. Station Yellow Dent. Average of 5 open-pollinated varieties Mountjoy Utility Dent. Sommer Yellow Dent. Average of all entries. (C) Average yield of Funk Hybrid G-212. Ukerie Hybrid G-212.	70.6 70.4 69.0 68.5 67.4 77.2 entrie 88.1 86.3	69.7 69.4 68.2 67.9 66.7 76.2 s grow 87.4 85.5	1.73 1.10 .94 1.10 1.25 7n in 19	17.7 18.0 18.1 19.3 16.5 37, 193	70.3 69.1 68.3 65.3 78.2 8, 1939, 80.1 77.2	89.9 88.4 87.3 83.5 1940 111.6 107.5	91.1 89.5 89.1 87.5 	90.8 89.2 88.6 86.5
11 12 13 14 15	Doublet Fellow Dent. Station Yellow Dent. Average of 5 open-pollinated varieties Mountjoy Utility Dent. Sommer Yellow Dent. Average of all entries. (C) Average yield of Funk Hybrid G-212. Ukerie Hybrid G-212.	70.6 70.4 69.0 68.5 67.4 77.2 entrie 88.1 86.3 86.5	69.7 69.4 68.2 67.9 66.7 76.2 s grow 87.4 85.5 84.4	1.73 1.10 .94 1.10 1.25 7n in 19 .75 1.00 2.48	17.7 18.0 18.1 19.3 16.5 37, 193 16.6 16.4 16.2	70.3 69.1 68.3 65.3 78.2 8, 1939, 80.1 77.2 77.1	89.9 88.4 87.3 83.5 1940 111.6 107.5 107.4	91.1 89.5 89.1 87.5 	90.8 89.2 88.6 86.5 109.2 106.4 105.4
11 12 13 14 15	Doublet Fellow Dent. Station Yellow Dent. Average of 5 open-pollinated varieties Mountjoy Utility Dent. Sommer Yellow Dent. Average of all entries. (C) Average yield of Funk Hybrid G-212. Ukerie Hybrid G-212.	70.6 70.4 69.0 68.5 67.4 77.2 entrie 88.1 86.3 86.5 84.2	69.7 69.4 68.2 67.9 66.7 76.2 s grow 87.4 85.5 84.4 83.6	1.73 1.10 .94 1.10 1.25 7n in 19 .75 1.00 2.48 .92	17.7 18.0 18.1 19.3 16.5 37, 193 16.6 16.4 16.2 15.6	70.3 69.1 68.3 65.3 78.2 8, 1939, 80.1 77.2 77.1 74.8	89.9 88.4 87.3 83.5 1940 111.6 107.5 107.4 104.2	91.1 89.5 89.1 87.5 108.4 106.1 104.7 103.7	90.8 89.2 88.6 86.5 109.2 106.4 105.4 103.8
11 12 13 14 15	Doublet Fellow Dent. Station Yellow Dent. Average of 5 open-pollinated varieties Mountjoy Utility Dent. Sommer Yellow Dent. Average of all entries. (C) Average yield of Funk Hybrid G-212. Ukerie Hybrid G-212.	70.6 70.4 69.0 68.5 67.4 77.2 entrie 88.1 86.3 86.5 84.2 75.6	69.7 69.4 68.2 67.9 66.7 76.2 s grow 87.4 85.5 84.4 83.6 74.8	1.73 1.10 94 1.10 1.25 7n in 19 .75 1.00 2.48 92 1.40	17.7 18.0 18.1 19.3 16.5 37, 193 16.6 16.4 16.2 15.6	70.3 69.1 68.3 65.3 78.2 80.1 77.2 77.1 74.8 65.6	89.9 88.4 87.3 83.5 1940 111.6 107.5 107.4 104.2 91.4	91.1 89.5 89.1 87.5 108.4 106.1 104.7 103.7 92.8	90.8 89.2 88.6 86.5 109.2 106.4 105.4 103.4 103.4
11 12 13 14 15 1 2 3 4 5 5	Doublet Fellow Dent. Station Yellow Dent. Average of 5 open-pollinated varieties Mountjoy Utility Dent. Sommer Yellow Dent. Average of all entries. (C) Average yield of Funk Hybrid G-212. Ukerie Hybrid G-212.	70.6 70.4 69.0 68.5 67.4 77.2 entrie 88.1 86.3 86.5 84.2	69.7 69.4 68.2 67.9 66.7 76.2 s grow 87.4 85.5 84.4 83.6	1.73 1.10 .94 1.10 1.25 7n in 19 .75 1.00 2.48 .92 1.40 .96	17.7 18.0 18.1 19.3 16.5 37, 193 16.6 16.4 16.2 15.6 18.4 17.8	70.3 69.1 68.3 65.3 78.2 8, 1939, 80.1 77.2 77.1 74.8 65.6 65.8	89.9 88.4 87.3 83.5 1940 111.6 107.5 107.4 104.2 91.4 91.6	91.1 89.5 89.1 87.5 	90.8 89.2 88.6 86.5 109.2 106.4 105.4 103.8 92.4 92.4
11 12 13 14 15	Station Yellow Dent. Average of 5 open-pollinated varieties Mountjoy Utility Dent. Sommer Yellow Dent. Average of all entries. (C) Average yield of Funk Hybrid G-212.	70.6 70.4 69.0 68.5 67.4 77.2 entrie 88.1 86.3 86.5 84.5 75.6	69.7 69.4 68.2 67.9 66.7 76.2 s grow 87.4 85.5 84.4 83.6 74.8 74.7	1.73 1.10 94 1.10 1.25 7n in 19 .75 1.00 2.48 92 1.40	17.7 18.0 18.1 19.3 16.5 37, 193 16.6 16.4 16.2 15.6	70.3 69.1 68.3 65.3 78.2 80.1 77.2 77.1 74.8 65.6	89.9 88.4 87.3 83.5 1940 111.6 107.5 107.4 104.2 91.4	91.1 89.5 89.1 87.5 108.4 106.1 104.7 103.7 92.8	90.8 89.2 88.6 86.5 109.2 106.4 105.4 105.4 103.4

Table 16.—CENTRAL ILLINOIS: Mt. Pulaski

		Acre	-yield	Damaged corn in	Mois-	Erect	F	lating for	
Ran	k Entry -	Total	Sound	- shelled sample	grain at harvest		Erect plants	Sound yield	General perform.
_	1940	bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Pioneer Hi-Bred 332. *Illinois Hybrid 247 (Lauer)	73.5	73.0	. 67	16.1	96	103.3	118.3	114.6
2	*Illinois Hybrid 247 (Lauer)	$\frac{75.3}{70.2}$	73.0	3.01	13.5	89 94	95.8	118.3	112.7
4	*Bear Hybrid OK-32 Null Hybrid N-89.	71.0	70.0 68.9	$\frac{.22}{3.01}$	14.3 13.6	94	$\frac{101.2}{101.2}$	$\frac{113.4}{111.7}$	110.4 109.1
4	Hulting Hybrid 380	68.1	67.8	.46	14.6	99	106.6	109.9	109.1
6	Null Hybrid N-89. Hulting Hybrid 380. Illinois Hybrid 201 (Tiemann). Pioneer Hi-Brid 313.	68.3 68.5	67.7 67.1	.84 2.06	$13.0 \\ 14.0$	99	106.6 106.6	$109.7 \\ 108.7$	108.9 108.2
8	*Illinois Hybrid 21 (Dyar)	68.5	66.7	2.65	13.7	100	107.6	108.1	108.2
9	*Illinois Hybrid 21 (Dyar)	67.8	67.4	.56	13.8	96	103.3	109.2	107.7
10 11	U. S. Hybrid 13 (Frey). U. S. Hybrid 5 (Oakes).	$\frac{68.1}{67.2}$	66.8 67.0	1.84	14.0 12.0	96 95	$103.3 \\ 102.3$	108.3 108.6	107.1 107.0
11	M-L Hybrid 514 (Moews-Lowe)	66.8	66.5	.50	13.0	97	104.4	107.8	107.0
13	M-L Hybrid 514 (Moews-Lowe) *Bear Hybrid OK-55	67.1	66.3	1.22	13.6	97	104.4	107.5	106.7
14 15	M-L Hybrid 500 (Moews-Lowe) Stiegelmeier Hybrid 901	$66.7 \\ 65.0$	66.0 64.9	1.08	$\frac{14.3}{12.7}$	97 100	104.4 107.6	$107.0 \\ 105.2$	106.4 105.8
16	Stiegelmeier Hybrid 901. U. S. Hybrid 13 (Van Horn) Crow Hybrid 607 DeKalb Hybrid 816	65.3	65.0	.42	13.3	99	106.6	105.3	105.6
17	Crow Hybrid 607	66.7 67.2	66.0 66.2	.98	15.0	93 92	100.1	107.0	105.3 105.2
18 19	Illinois Hybrid 201 (Lehmann)	66.0	64.9	1.43 1.60	15.0 11.7	92 97	99.0 104.4	107.3 105.2	105.2
20	U. S. Hybrid 13 (Lehmann)	65.1	64.5	. 93	13.8	96	103.3	104.5	104.2
21 22	*Pioneer Hi-Bred 300	63.7	63.2	.71	13.8	99	106.6	102.4 102.6	103.4
	E. W. Doubet Hybrid D42 *Null Hybrid N-77	65.8 66.5	63.3 64.9	$\frac{3.80}{2.38}$	13.6 13.3	98 90	$105.5 \\ 96.9$	102.0	$103.3 \\ 103.1$
23	Null-Vollmer Hybrid NV-32 (Vollmer)	64.5	63.8	1.06	13.2	95	102.3	103.4	103.1
25 26	Crow Hybrid 608 Stiegelmeier Hybrid 904	$63.7 \\ 63.8$	$63.1 \\ 62.7$.93 1.80	13.3 13.7	96 97	103.3 104.4	$102.3 \\ 101.6$	102.6 102.3
27	U. S. Hybrid 13 (Mountiov)	64.3	62.8	2.26	13.7	96	103.3	101.8	102.3
28	U. S. Hybrid 13 (Mountjoy) Pioneer Hi-Bred 307	62.9	62.5	.56	12.3	97	104.4	101.3	102.1
28 30	*Pioneer Hi_Bred 336	$62.7 \\ 66.6$	62.3 66.0	. 66 . 91	$12.9 \\ 14.7$	98 80	$105.5 \\ 86.1$	$101.0 \\ 107.0$	$102.1 \\ 101.8$
30	Illinois Hybrid 877 (Pfeifer)	66.8	64.9	2.83	14.5	85	91.5	105.2	101.8
30	Van Horn Hybrid 22. Stiegelmeier Hybrid 38. M-L Hybrid 523 (Moews-Lowe).	62.6	62.3	. 55	13.3	97	104.4	101.0	101.8
33 34	M.I. Hubrid 523 (Moarry-Lorge)	$62.9 \\ 63.5$	$61.8 \\ 61.7$	$\frac{1.80}{2.86}$	$\frac{14.2}{13.3}$	98 98	105.5 105.5	$100.2 \\ 100.0$	101.5 101.4
35	U. S. Hybrid 35 (Allen)	62.0	61.6	. 67	13.1	98	105.5	99.8	101.2
36	U. S. Hybrid 35 (Allen) U. S. Hybrid 13 (Holmes)	62.9	62.1	1.32	14.0	95	102.3	100.6	101.0
37 38	Illinois Hybrid 206 (C. Doubet & Son)	63.3 62.5	$62.0 \\ 61.1$	$\frac{2.08}{2.24}$	14.0 13.4	94 98	$101.2 \\ 105.5$	100.5 99.0	100.7 100.6
39	Rear Hybrid OK-72. Kelly Hybrid K-99. DeKalb Hybrid 817. U. S. Hybrid 13 (Tiemann). DeKalb Evperimental Hybrid 92.	61.1	60.9	.37	12.9	98	105.5	98.7	100.4
40	DeKalb Hybrid 817	61.9	61.7	.28	12.7	94	101.2	100.0	100.3
41	DeKalb Experimental Hybrid 92	62.3 64.7	$61.0 \\ 64.0$	2.06 1.14	$\frac{15.5}{16.2}$	94 80	101.2 86.1	98.9 103.7	99.5 99.3
43	Illinois Hybrid 201 (Allen). Funk Hybrid G-169.	60.4	60.0	.74	12.5	98	105.5	97.2	99.2
44	Funk Hybrid G-169	60.5	59.6	1.46	12.9	99	106.6	96.6	99.1
45 46	Pioneer Hi-Bred 333. *Stiegelmeier Hybrid 100. *Illinois Hybrid 437 (I.H.P.) Iowealth Hybrid 29A.	$\frac{59.6}{62.7}$	$\frac{59.3}{61.1}$.58 2.49	$12.7 \\ 13.4$	100 91	107.6 98.0	96.1 99.0	99.0 98.8
47	*Illinois Hybrid 437 (I.H.P.)	60.8	60.0	1.39	15.7	96	103.3	97.2	98.7
48	Iowealth Hybrid 29A	61.7	60.9	1.29	14.5	91	98.0	$98.7 \\ 98.2$	98.5
49 49		62.2	60.6 60.1	.18 3.30	$\begin{array}{c} 15.2 \\ 13.8 \end{array}$	92 94	$99.0 \\ 101.2$	97.4	98.4 98.4
51	Kelly Hybrid K-100. Iowealth Hybrid 29B.	60.4	59.5	1.45	14.5	94	101.2	96.4	97.6
52 53	Mountjoy Hybrid 2121	63.8 63.8	59.7 61.8	$6.41 \\ 3.10$	14 3	92 81	$\frac{99.0}{87.2}$	$\frac{96.8}{100.2}$	97.4 97.0
54	DeKalb Hybrid 840. *Holmes Utility Hybrid 69. Illinois Hybrid 784 (Canterbury)	64.8	61.7	4.71	$\frac{14.2}{12.7}$	97	104.4	93.8	96.4
55	Illinois Hybrid 784 (Canterbury)	62.4	61.9	.76	16.7	78	84.0	100.3	96.2
56 57	M-L Hybrid 830 (Moews-Lowe) Kelly Hybrid K-374	60.1 59.6	$\frac{58.9}{57.2}$	2.04 3.97	$\frac{14.2}{13.9}$	91 98	98.0 105.5	95.5 92.7	96.1 95.9
58	Bear Hybrid OK-79.	60.6	57.4	5.31	13.9	94	101.2	93.0	95.1
59	Illinois Hybrid 200 (Canterbury)	57.5	57.2	.48	14.6	94	101.2	92.7	94.8
60	Sibley Farms Hybrid 753B	59.8 57.2	57.7 57.0	3.49	13.5 13.4	89 92	95.8 99.0	93.5 92.4	94.1 94.1
62	Reily Hybrid OK-79 Bear Hybrid OK-79 Illinois Hybrid 200 (Canterbury). Illinois Hybrid 805 (Holmes). Sibley Farms Hybrid 753B. Funk Hybrid G-80. Crow Hybrid 804	56.9	56.6	.45	15.5	93	100.1	91.7	93.8
63	Crow Hybrid 804	60.2	58.7	2.53	14.7	83	89.3	95.1	93.6
63 65	Funk Hybrid G-94	59.6 58.5	58.7 56.3	1.52 3.82	14.3 13.9	83 93	89.3 100.1	95.1 91.2	93.6 93.4
66	Crow Hybrid 804 *E. W. Doubet Hybrid D50. Funk Hybrid G-94 DeKalb Hybrid 888 Funk Hybrid G-84. Funk Hybrid G-81. Doubet Yellow Dent. Station Yellow Dent. Wessbecker Yellow Dent.	56.5	55.9	1.10	14.7	94	101.2	90.6	93.2
67 68	Funk Hybrid G-84	56.2	55.2	1.76	$\frac{14.7}{14.0}$	92 88	99.0 94.7	89.5 90.9	91.9 91.8
69	Doubet Yellow Dent	57.6 57.7	56.1 56.3	2.53 2.45	14.0	88 85	91.5	91.2	91.8
70	Station Yellow Dent.	57.4	57.1	.57	14.9	78	84.0	92.5	90.4
71	Wessbecker Yellow Dent Average of 5 open-pollinated varieties	56.6 54.9	55.6 53.8	1.77 2.01	15.9 15.3	82 83.2	88.3 89.6	90.1 87.1	89.6 87.7
72	DeKalb Hybrid 899	55.2	54.3	1.56	16.6	80	86.1	88.0	87.5
73	Mountjoy Utility Dent	51.4	51.2	.44	15.2	84	90.4	83.0	84.8
74 75	*Funk Hybrid G-99 Canterbury Yellow Dent	50.4 51.2	50.1 48.7	.53 4.83	15.4 16.2	86 87	92.6 93.6	81.2 78.9	84.1 82.6
	Average of all entries	62.8	61.7	1.69	14.0	93.1			02.0
	vierake or an entities	04.5	01./	1.09	17.0	1.00	****		• • • • •

^{*}Less than 5 bushels of seed sampled.

A difference of less than 6.4 bushels between total yields of any two entries in this table is not significant.

Table 17.—EAST-CENTRAL ILLINOIS: Paxton

		Ann	vield	Damaged		Freet	F	lating for	
Rank	Entry -	Total	-yield Sound	corn in shelled sample	ture in grain at harvest	Erect plants	Erect plauts	Sound yield	General perform.
	1940	bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Pioneer Hi-Bred 313. Pioneer Hi-Bred 307. Stiegelmeier Hybrid 44. M-L Hybrid 500 (Moews-Lowe). Hoosier Crost Hybrid 668-L. Iowealth Hybrid 689. Pioneer Hi-Bred 333. M-L Hybrid 514 (Moews-Lowe). Illinois Hybrid 960 (L. A. Sass). Pioneer Hi-Bred 300.	77.3	74.8	3.18	23.0	93	98.4	138.6	128.6
2 3	Pioneer Hi-Bred 307	$\frac{74.2}{70.7}$	72.7	2.00	18.9	97	102.6	134.7	$126.7 \\ 123.1$
4	M.I. Hybrid 500 (Moews-Lowe)	68.2	$70.5 \\ 67.5$. 29 . 98	$\frac{22.8}{21.5}$	95 99	100.5 104.8	130.6 125.1	120.0
5	Hoosier Crost Hybrid 668-L	68.5	68.1	. 61	22.8	95	100.5	126.2	119.8
6 7	Iowealth Hybrid AQ	$\frac{67.9}{68.7}$	$66.8 \\ 66.4$	$\frac{1.64}{3.30}$	$\frac{19.0}{20.9}$	96 97	$101.6 \\ 102.6$	$123.8 \\ 123.0$	$\frac{118.2}{117.9}$
8	¹ M-L Hybrid 514 (Moews-Lowe)	66.5	65.8	1.08	16.9	98	102.0	121.9	117.4
9	Illinois Hybrid 960 (L. A. Sass)	65.6	65.2	.59	20.6	95	100.5	120.8	115.6
10 11	*Pioneer Hi-Bred 300	65.7 64.6	64.4 64.3	1.95 .45	$\frac{22.1}{20.6}$	97 95	$102.6 \\ 100.5$	119.3 119.1	115.1 114.5
12	M-L Hybrid 523 (Moews-Lowe)	64.7	63.7	1.48	20.3	98	103.7	118.0	114.4
13	U. S. Hybrid 13 (Frey)	$64.5 \\ 64.2$	63.6 63.4	$\frac{1.42}{1.22}$	$\frac{20.6}{19.9}$	98 98	103.7 103.7	117.8	114.3 114.1
14 15	*Pioneer Hi-Bred 336	65.1	63.4	2.54	$\frac{19.9}{21.2}$	98 97	103.7	117.5 117.5	113.8
16	Stiegelmeier Hybrid 901	63.5	62.5	1.51	19.3	99	104.8	115.8	113.1
17 18	*Illinois Hybrid 246 (I.H.P.)	$\frac{66.0}{62.0}$	63.4 61.3	4.01 1.12	$\frac{21.5}{20.9}$	93 99	98.4 104.8	$117.5 \\ 113.6$	$\frac{112.7}{111.4}$
19	Illinois Hybrid 201 (Holmes)	63.8	61.4	3.78	19.5	98	103.7	113.8	111.3
20	Null Hybrid N-16.	64.4	61.3	4.87	20.3	98	103.7	113.6	111.1
$\frac{20}{22}$	Illinois Hybrid 960 (L. A. Sass). Pioneer Hi-Bred 300. U. S. Hybrid 14 (Ferris). M-L Hybrid 523 (Moews-Lowe). U. S. Hybrid 13 (Frey). Crow Hybrid 608. Pioneer Hi-Bred 336. Stiegelmeier Hybrid 901. Illinois Hybrid 246 (I.H.P.). DeKalb Hybrid 246 (I.H.P.). DeKalb Hybrid 221 (Holmes). Null Hybrid N-16. Bear Hybrid 0K-72. Funk Hybrid G-169. Seeber Hybrid 11B. Illinois Hybrid 126 (Oakes). Pioneer Hi-Bred 332. Illinois Hybrid 427 (Canterbury). Kelly Hybrid K-374. Lowealth Hybrid 29B.	$63.6 \\ 63.2$	$\begin{array}{c} 61.1 \\ 61.2 \end{array}$	$\frac{3.97}{3.12}$	$\frac{20.3}{19.2}$	99 96	$104.8 \\ 101.6$	$\frac{113.2}{113.4}$	$111.1 \\ 110.5$
23	Seeber Hybrid 11B	61.3	60.6	1.10	22.6	97	102.6	112 3	109.9
24 25	Illinois Hybrid 126 (Oakes)	61.2	59.6 59.8	2.59	$22.4 \\ 24.5$	100 97	$\begin{array}{c} 105.8 \\ 102.6 \end{array}$	110.4	$\frac{109.2}{108.8}$
26 26	Illinois Hybrid 247 (Canterbury)	59.9	59.8 59.2	1.24	20.6	100	102.6	$\frac{110.8}{109.7}$	108.8
27	Kelly Hybrid K-374	62.1	58.7	5.54	19.8	100	105.8	108.8	108.1
28 29	Illinois Hubrid 21 (From	$\frac{57.8}{58.1}$	57.2 56.5	$\substack{1.12\\2.67}$	$\frac{20.2}{20.6}$	97 100	$102.6 \\ 105.8$	$106.0 \\ 104.7$	$105.2 \\ 105.0$
30	*Holmes Utility Hybrid 69	59.1	56.6	4.20	19.6	99	104.8	104.9	104.9
31	U. S. Hybrid 44 (Frey)	57.6	57.0	.98	20.3	97	102.6	105.6	104.8
32 33	Bear Hybrid UK-60	57.0 57.3	$\frac{56.8}{56.3}$	$\substack{.31\\1.82}$	$\frac{19.9}{20.3}$	94 96	99 5 101.6	$105.2 \\ 104.3$	103.8 103.6
34	Sibley Farms Hybrid S75	56.7	55.8	1.54	21.2	97	102.6	103.4	103.2
35	Kelly Hybrid K-374 Iowealth Hybrid 29B Illinois Hybrid 21 (Frey). *Holmes Utility Hybrid 69 U. S. Hybrid 44 (Frey). *Bear Hybrid 64. Crow Hybrid 804 Sibley Farms Hybrid 875 Bear Hybrid 0K-70 Sttegelmeier Hybrid 38, National Hybrid 129 Stegelmeier Hybrid 904 U. S. Hybrid 44 (Tiemaun). *Illinois Hybrid 690 (I.H.P.) Sass Hybrid 40 (U. G. Sass) U. S. Hybrid 40 (Burrus). *Sibley Farms Hybrid 873	56.4	55.6	1.50	19.7	97	102.6	103.0	102.9
36 37	National Hybrid 129	$\frac{57.2}{56.2}$	$\frac{55.9}{55.8}$	2.22	$\frac{20.3}{21.2}$	95 95	100.5 100.5	$103.6 \\ 103.4$	$102.8 \\ 102.7$
38	Stiegelmeier Hybrid 904	56.9	55.1	3.09	23.2	98	103.7	102.1	102.5
39 39	U. S. Hybrid 44 (Tiemann)	57.1 57.0	55.6 55.4	$\substack{2.55\\2.76}$	$\frac{20.3}{20.3}$	95 96	$100.5 \\ 101.6$	$103.0 \\ 102.7$	$102.4 \\ 102.4$
41	Sass Hybrid 40 (U. G. Sass)	57.8	56.0	2.98	21.8	92	97.4	103.8	102.2
41	U. S. Hybrid 5 (P.C.I.A.)	56.6	54.9	3.02	20.6	98	103.7	103.8 101.7	102.2
43 44	*Sibley Farms Hybrid S73	55.0 55.6	54.0 54.6	$\frac{1.80}{1.74}$	$\frac{20.3}{22.6}$	100 94	105.8 99.5	$100.1 \\ 101.2$	$101.5 \\ 100.8$
45	*Sibley Farms Hybrid S73 Funk Hybrid G-212	55.3	5 3.6	3.08	23.2	97	102.6	99.3	100.1
46 46	Funk Hybrid G-212 Lowealth Hybrid 29A Illinois Hybrid 200 (Dallmier). Funk Hybrid G-32. E. W. Doubet Hybrid D11. Funk Hybrid G-94.	54.7 55.6	53.9 53.4	1.38 3.95	$\frac{21.2}{22.8}$	94 97	$\frac{99.5}{102.6}$	$\frac{99.9}{98.9}$	$\frac{99.8}{99.8}$
48	Funk Hybrid G-32	53.3	52.5	1.59	20.6	100	105.8	97.3	99.8
49	E. W. Doubet Hybrid D11	54.0	52.9	1.98	21.2	97	102.6	98.0	99.2
50 51	Macon Hybrid 666.	53.3 55.0	$\frac{52.2}{52.4}$	2.12 4.66	$\frac{22.1}{19.6}$	100 97	105.8 102.6	$\frac{96.7}{97.1}$	99.0 98.5
59	Funk Hybrid G-53	52.7	51.7	1.87	19.9	99	104.8	95.8	98.1
53 53	DeKalb Experimental Hybrid 80 DeKalb Experimental Hybrid 87	54.9 53.9	$\frac{52.9}{52.3}$	3.73	$\frac{23.2}{22.6}$	92	97.4 100.5	$\frac{98.0}{96.9}$	97.8
55		55.4	51.4	$\frac{2.92}{7.17}$	20.6	9 5 97	100.5	95.9	97.8 97.1
56	DeKalb Hybrid 816	51.5	50.8	1.27	24.8	100	105.8	94.1	97.0
57 58	*Richbred Hybrid 381	52.7 50.0	49.5 48.4	$\frac{6.05}{3.14}$	23.0 20.9	98 99	103.7 104.8	91.7 89.7	94.7 93.5
59	Sibley Farms Hybrid 753B	48.0	47.4	1.18	20.3	99	104.8	87.8	92.1
	Relly Hytria A-99 DeKalb Hybrid 816 *Richbred Hybrid 381 DeKalb Experimental Hybrid 94 Sibley Farms Hybrid 753B DeKalb Hybrid 888	50.1	47.7	4.73	22.6	96	101.6	88.4	91.7
61 62	M-L Hybrid 830 (Moews-Lowe)	51.3 48.7	49.6 46.8	$\frac{3.32}{3.82}$	22.4 21.2	83 97	87.8 102.6	$\frac{91.9}{86.7}$	$90.9 \\ 90.7$
62	Dekalb Hybrid 888 Crow Hybrid 607 M-L Hybrid 830 (Moews-Lowe) Sibley Farms Hybrid 753A Bear Hybrid 0K-67 Illinois Hybrid 877 (Kerns) Punk Hybrid G-81 Illinois Hybrid 784 (Kerns) Crow Hybrid 501 (W) Doubet Yellow Dent Station Yellow Dent	47.2	46.8	.95	22 4	97	102.6	86.7	90.7
64 65	Bear Hybrid OK-67	47.4 47.3	46.2	2.58	$\frac{20.3}{23.8}$	99 89	$104.8 \\ 94.2$	85.6 86.9	$90.4 \\ 88.7$
66	Funk Hybrid G-81	44.0	40.9	2 68	21.2	96	101.6	79.3	84 9
67	Illinois Hybrid 784 (Kerns)	40.3	38.4	4 74	24.0	91	96.3	71.2	77.5
68 69	Crow Hybrid 501 (W)	$\frac{40.1}{34.5}$	38.4 34.0	4.22 1.41	20.9 23.4	84 79	88.9 83.6	$\frac{71.2}{63.0}$	$\begin{array}{c} 75.6 \\ 68.2 \end{array}$
70	Station Yellow Dent	0.0 0	32.0	.94	23.8	72	76.2	5 9.3	63.5
7,	Average of 5 open-pollinated varieties	30.3	29.9	1.12	23.7	70.8	74.8	55.6	60.4
$\frac{71}{72}$	*Miller Hybrid 1182 (W)	$\frac{30.5}{27.2}$	30.0 25.9	$\frac{1.77}{4.90}$	$\frac{24.3}{27.0}$	68 85	72.0 89.9	55.6 48.0	59.7 58.5
73	Sommer Yellow Dent	28.8	28.6	. 64	24.3	69	73.0	53.0	58.0
74 75	Station Fellow Dent Javerage of 5 open-pollinated varieties. 'Canterbury Yellow Dent. 'Miller Hybrid 1182 (W). Sommer Yellow Dent. Mountjoy Utility Dent. *Miller Hybrid 1180 (W).	25.5	25.3	.82	22.6	66	69.8	46.9	52.6
10	Assessed of all antices	14.4	13.3	7.98	32.3	91	96.3	24.6	42.5
	Average of all entries	55.3	54.0	2.45	21.6	94.5			

^{*}Less than 5 bushels of seed sampled. Average of 9 plots instead of 10.

Table 18.—EAST-CENTRAL ILLINOIS: Paxton Summaries

ound Ger vield perf		Erect	ture in	corn in	-yield	Acre		
		plants	grain at harvest	- sbelled sample	Sound	Total	Entry -	Rank
	40	and 19	1939	grown in	ntries (l of e	(A) Average yield	
erct.	perct. 1	perct.	perct.	perct.	bu.	bu.		
20.7 116	102.9 1	96.5	18.1	2.77	76.3	78.5	ioneer Hi-Bred 313	1
17.2 113	103.9 1	97.5	15.8	2.04	74.1	75.6	ioneer Hi-Bred 307	2
13.0 110	102.9 1	96.5	18.2	2.18	71.4	73.6	oosier Crost Hybrid 668-L	3
12.3 109 09.8 108	100.7 1 104.5 1	94.5 98.0	$17.8 \\ 16.2$. 43 2. 17	71.0 69.4	$71.3 \\ 71.0$	tiegelmeier Hybrid 44	5
10.4 108		95.0	17.0	1.34	69.8	70.8	linois Hybrid 960	6
09.3 107	102.9 1	96.5	16.6	3.15	69.1	71.3	linois Hybrid 960. linois Hybrid 201 (Holmes)	7
08.7 107	102.9 1	96.5	16.9	1.46	68.7	69.8	. S. Hybrid 14 (Ferris)	8
07.8 107 08.5 107		99.0 96.0	$\frac{15.2}{17.0}$	4.30 3.26	68.1 68.6	71.2 70.8	I-L Hybrid 514 (Moews-Lowe)	8 10
06.3 106	105.5	99.0	17.2	3.10	67.2	69.4	ull Hybrid N-16. S. Hybrid 13. ear Hybrid OK-60. row Hybrid 608.	11
07.3 105	99.7 1	93.5	16.5	.28	67.8	68.0	ear Hybrid OK-60	12
05.1 105	105.0 1	98.5	16.6	1.36	66.4	67.4	row Hybrid 608	13
04.6 104 04.6 104	104.5 1 104.3 1	98.0	16.6	5.21	66.1 66.1	69.6	elly Hybrid K-374. S. Hybrid 44. Liegelmeier Hybrid 901. Liegelmeier Hybrid 904.	14
04.6 104 04.1 104	104.5	97.8 98.0	16.8 16.4	$\frac{2.30}{2.61}$	65.8	$67.9 \\ 67.6$	tiegelmeier Hybrid 901	15 16
03.0 103	105.0 1	98.5	18.4	3.56	65.1	67.6	tiegelmeier Hybrid 904	17
02.4 103	105.0 1	98.5	18.6	2.17	64.7	66.1	linois Hybrid 126 (Oakes)linois Hybrid 206 (Burrus)	18
01.4 102 00.2 101		98.5 97.0	$\frac{16.8}{17.4}$	1.24 1.15	64.1 63.3	64.8 64.1	linois Hybrid 206 (Burrus)	19 20
99.1 100	105.4	98.5	18.2	2.20	62.6	64.0	unk Hybrid G-212	21
99.2 100	103.9	97.5	16.8	3.14	62.7	64.8	inhois Hybrid Co (Burtus), bibley Farms Hybrid 753B, unk Hybrid G-212. tiegelmeier Hybrid 38, unk Hybrid G-94 . W. Doubet Hybrid D11 linois Hybrid 200. bix Hybrid 280	22
99.1 100	104.5	98.0	17.8 17.5	1.72	62.6	63.6	unk Hybrid G-94	22
98.4 99 98.1 99	102.9 102.3	$96.5 \\ 96.0$	17.5	$\frac{3.57}{3.88}$	$\frac{62.2}{62.0}$	64.8 64.4	. W. Doubet Hybrid D11	24
98.4 99	102.3	94.5	$\frac{18.6}{18.2}$	2.72	62.2	63.7	Inois Hybrid 200	25 26
97.8 98	101.3	95.0	17.1	3.32	61.8	64.1	innos Hybrid 200 eKalb Hybrid 888 row Hybrid 804 row Hybrid 607 ibley Farms Hybrid 753A unk Hybrid G-53	27
00.0 98	94.3 1	88.5	17.8	3.08	63.2	65.1	row Hybrid 607	28
95.1 96 94.5 96		95.5 97.5	$\frac{18.2}{16.6}$	3.06	60.1 59.7	62.3	ibley Farms Hybrid 753A	29 29
94.5 96 76.9 79	85.8	97.5 80.5	18.6	2.54	48.6	61.4 49.8	onbet Yellow Dent	31
73.6 75	80.5	75.5	18.8	3.81	46.5	48.8	tation Vollow Dont	32
72.9 75	81.3	76.3	1.86	2.14 3.81 2.78	46.1	47.4	verage of 5 open-pollinated varieties	
72.2 74 $72.2 74$	82.1	77.0	19.1	$\frac{2.91}{1.26}$	45.6	47.1	anterbury Yellow Dent	33
70.3 72	$\frac{81.0}{77.3}$	$\frac{76.0}{72.5}$	18.0 18.8	1.25	45.6 44.4	46.2 45.1	Iountjoy Utility Dent	34 35
	••••	93.8	17.4	2.48	63.2	64.9	Average of all entries	
	940	1939, 1	1938,	rown in	ntries g	of en	(B) Average yield	
22.7 117	101.1 1	88.8	16.7	2.40	70.9	72.7	ioneer Hi-Bred 313	1
17.3 114	105.0 1	92.2	16.1	3.47	67.8	70.1	ioneer Hi-Bred 307. Ilinois Hybrid 960. ear Hybrid OK-60 S. Hybrid 44 S. Hybrid 13. wealth Hybrid AQ. unk Hybrid G-94. row Hybrid 608. row Hybrid 804. unk Hybrid G-212. unk Hybrid G-53. boubet Yellow Dent. tation Yellow Dent. versage of 5 open-pollinated varieties.	2
13.1 110 12.1 110	103.3 1 103.6 1	$90.7 \\ 91.0$	15.7 15.4	1.56	$65.4 \\ 64.8$	$66.5 \\ 65.3$	linois Hybrid 960	3 4
09.2 109	108.2	95.0	15.8	3.39	63.1	65.4	S. Hybrid 44	5
09.0 109	109.1 1	95.8	16.5	2.46	63.0	64.7	S. Hybrid 13	5
08.7 108	107.6	94.5	15.0	2.36	62.8	64.3	owealth Hybrid AQ	7
06.4 106 03.1 103		$95.3 \\ 93.2$	$\frac{17.1}{15.7}$	1.88 1.36	61.5 59.6	$60.9 \\ 60.4$	unk Hybrid G-94	8
02.2 101	98.8	86.7	16.1	2.50	59.0	60.8	row Hybrid 804	10
00.3 101	103.3 1	90.7	16.3	2.20	58.0	59.3	unk Hybrid G-212	11
97.1 99	106.7	93.7	15.4	2.35	56.1	57.5	unk Hybrid G-53	12
76.5 80 76.1 78	92.0 85.2	80.8 74.8	17.1 17.8	$\frac{2.06}{2.97}$	$\frac{44.2}{44.0}$	45.2 45.7	totion Vellow Dent	13 14
74.9 7	84.3	74.0	17.4	2.51	43.3	44.4	verage of 5 open-pollinated varieties	17
74.7 76	80.3	70.5	17.5	.90	43.2	43.6	ommer Yellow Dent	15
71.1 73	80.5	70.7	16.8	2.94	41.1	42.3	lountjoy Utility Dent	16
	••••	87.8	16.3	2.22	57.8	59.0	Average of all entries	
	, 1940	8, 1939	37, 193	n in 19	es grow	entri	(C) Average yield of	
17.0 115		93.2	14.9	2.32	69.4	71.0	ioneer Hi-Bred 307	1
16.0 113 11.3 111	105.5	90.2		1.26	68.8	67.6	Innois Hyprid 960	2
11.3 111 05.4 108	106.2			1.76	62.5		unk Hybrid G-212	
02.5 103	107.6	92.0	15.6	1.79	60.8	61.9	unk Hybrid G-53	5
82.6 84	91.9	78.6	17.3	1.55	49.0	49.8	Ooubet Yellow Dent	6
83.8 84 83.0 83	86.1	74.5	18.0	1 20	49.7	50.0	verse of 5 open-pollinated variation	7
80.9 81			16.7	2.24			Mountiov Utility Dent	8
							Average of all entries	-
	109.0 1 105.5 1 109.9 1 106.2 1 107.6 1	93.2 90.2 94.0 90.8 92.0	14.9 15.8 16.0 16.2 15.6	2.32 1.26 2.62 1.76 1.79	69.4 68.8 66.0 62.5 60.8	71.0 69.6 67.8 63.5 61.9		2 3 4 5 6 7

Summaries of Four Fields, Concluded

		Acre-		Damaged corn in	Mois- ture in	Erect	F	Cating for	
Rank	Entry	Total	Sound		grain at		Erect plants	Sound yield	General
	Cambridge (9C) Average y	ield of			in 19	37, 1938			
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Pioneer Hi-Bred 307		108.7	2.43	17.3	77.6	108.5	110.4	109.9
2	Funk Hybrid G-212		106.7	.72	18.1	76.4	106.9	108.3	108.0
3	U. S. Hybrid 44		107.1	1.10	16.9	74.4	104.1	108.7	107.6
4	Illinois Hybrid 960	107.9	106.8	1.02	17.7	70.9	99.2	108.4	106.1
5	Morgan Hybrid M-52		102.5	2.08	17.1	75.1	105.0	104.1	104.3
6	Funk Hybrid G-32		102.2	1.34	18.5	75.4	105.5	103.8	104.2
7	DeKalb Hybrid 825	97.4	96.2	1.56	18.4	86.4	120.8	97.7	103.5
8	Illinois Hybrid 751	97.1	95.6	1.48	17.1	78.2	109.4	97.1	100.2
9	Doubet Yellow Dent	87.9	86.0	1.95	19.2	60.2	84.2	87.3	86.5
	Krug	88.0	85.9	2.39	18.4	57.0	79.7	87.2	85.3
	Average of 5 open-pollinated varieties	86.0	84.8	1.42	18.5	58.1	81.2	88.1	84.9
11	Roeschley Yellow Dent	86.9	85.8	1.20	17.3	55.0	76.9	87.1	84.6
	Average of all entries	100.0	98.5	1.57	17.8	71.5			
	Cambridge (9D) Average yiel	d of en	tries gr	own in	1936,	1937, 19	38, 19	39, 194)
1	U. S. Hybrid 44	92.8	91.5	1.36	17.3	78.4	104.8	107.1	106.5
2	Funk Hybrid G-212	91.3	90.4	1.01	17.9	79.5	106.3	105.9	106.0
3	Illinois Hybrid 960	92.6	91.6	1.12	17.5	74.2	99.2	107.3	105.3
4	Illinois Hybrid 751	82.6	81.3	1.45	17.1	80.4	107.5	95.2	98.3
5	Roeschley Yellow Dent	73.1	72.1	1.39	17.6	61.3	82.0	84.4	83.8
•	Average of 5 open-pollinated varieties	72.3	71.1	1.79	18.4	62.3	83.8	88.8	83.3
	Average of all entries	86.5	85.4	1.27	17.5	74.8			
	Reddick (13D) Average yield	of ent	ries gro	own in	1936,	1937, 1	938, 19	39, 194	0
1	Funk Hybrid G-212	77.2	76.0	1.76	16.6	84.2	107.3	107.3	107.3
2	U. S. Hybrid 44	74.0	73.5	.76	17.2	83.0	105.7	103.8	104.3
3	Roeschley Yellow Dent	63.5	62.8	1.28	18.5	68.4	87.1	88.7	88.3
	Average of 5 open-pollinated varieties	61.4	60.6	1.53	18.5	68.0	86.6	85.6	85.8
	Average of all entries	71.6	70.8	1.27	17.4	78.5			
	Littleton (15D) Average yiel	d of en	tries gr	own in	1936,	1937, 19	38, 193	39, 1940)
1	Funk Hybrid G-212	77.6	76.9	.98	16.6	81.0	112.5	108.9	109.8
2	Illinois Hybrid 960	77.7	76.7	1.10	16.5	77.3	107.4	108.6	108.3
	Station Yellow Dent	65.8	64.9	1.72	18.5	66.0	91.7	91.9	91.8
3				1.24	18.5	65.5	91.0	90.8	90.9
	Average of 5 open-pollinated varieties	64.8	64.1						
	Average of 5 open-pollinated varieties Mountjoy Utility Dent	64.2	63.7	1.11	18.2	63.6	88.3	90.2	89.7
	Average of 5 open-pollinated varieties							90.2	89.7
	Average of 5 open-pollinated varieties Mountjoy Utility Dent	64.2 71.3	63.7 70.6	1.11	18.2 17.4	63.6 72.0	88.3	••••	
1	Average of 5 open-pollinated varieties Mountjoy Utility Dent Average of all entries Paxton (18D) Average yield Illinois Hybrid 960	64.2 71.3 of ent	63.7 70.6 ries gro	1.11 1.23 wn in	18.2 17.4 1936, 1	63.6 72.0 937, 193 85.9	88.3 88, 193	9, 1940	118.4
1 2	Average of 5 open-pollinated varieties Mountjoy Utility Dent Average of all entries Paxton (18D) Average yield Illinois Hybrid 960 Funk Hybrid G-212	64.2 71.3 of ent 70.2 64.5	63.7 70.6 ries gro 69.3 63.4	1.11 1.23 wn in 1.30 1.83	18.2 17.4 1936, 1 16.5 16.7	63.6 72.0 937, 193 85.9 86.5	88.3 88, 193 111.9 112.6	9, 1940 120.5 110.3	118.4 110.9
1 2 3	Average of 5 open-pollinated varieties. Mountjoy Utility Dent. Average of all entries. Paxton (18D) Average yield Illinois Hybrid 960. Funk Hybrid G-212. Station Yellow Dent.	64.2 71.3 l of ent 70.2 64.5 51.0	63.7 70.6 ries gro 69.3 63.4 49.7	1.11 1.23 wn in 1.30 1.83 2.46	18.2 17.4 1936, 1 16.5 16.7 18.6	63.6 72.0 937, 193 85.9 86.5 69.8	88.3 38, 193 111.9 112.6 90.9	9, 1940 120.5 110.3 86.4	118.4 110.9 87.5
1 2 3	Average of 5 open-pollinated varieties Mountjoy Utility Dent Average of all entries Paxton (18D) Average yield Illinois Hybrid 960 Funk Hybrid G-212 Station Yellow Dent. Average of 5 open-pollinated varieties	71.3 of ent 70.2 64.5 51.0 50.0	63.7 70.6 ries gro 69.3 63.4 49.7 49.1	1.11 1.23 wn in 1.30 1.83 2.46 2.09	18.2 17.4 1936, 1 16.5 16.7 18.6 18.1	63.6 72.0 937, 193 85.9 86.5 69.8 68.5	88.3 38, 193 111.9 112.6 90.9 89.2	9, 1940 120.5 110.3 86.4 85.4	118.4 110.9 87.5 86.4
1 2 3	Average of 5 open-pollinated varieties. Mountjoy Utility Dent. Average of all entries. Paxton (18D) Average yield Illinois Hybrid 960. Funk Hybrid G-212. Station Yellow Dent.	64.2 71.3 l of ent 70.2 64.5 51.0	63.7 70.6 ries gro 69.3 63.4 49.7	1.11 1.23 wn in 1.30 1.83 2.46	18.2 17.4 1936, 1 16.5 16.7 18.6	63.6 72.0 937, 193 85.9 86.5 69.8	88.3 38, 193 111.9 112.6 90.9	9, 1940 120.5 110.3 86.4	118.4 110.9 87.5

Table 19.—EAST SOUTH-CENTRAL ILLINOIS: Sullivan

		Acre	-yield	Damaged corn in	Mois- ture in	Erect	F	lating for	
Rank	Entry	Total	Sound	- shelled sample	grain at		Erect plants	Sound yield	General perform.
1940	0	bu.	bu.	perct.	perct.	perct.	perct.	perct.	
	Hi-Bred 300	85.4	84.6	.95	17.1	99	100.0	120.7	115.5
	Hi-Bred 313	82.9	80.1	3.36	19.7	100	101.0	114.3	111.0
	Hybrid 126 (Oakes)	79.6	79.3	.38	16.4	100	101.0	113.2	110.2
4 Null Hy 5 *Null-Vol	brid N-61	$79.8 \\ 79.6$	79.5 79.2	.32 .54	16.0 17.1	99 100	100.0 101.0	$113.4 \\ 113.0$	110.1 110.0
	Hybrid 247 (Canterbury)	82.2	78.8	4.13	17.4	100	101.0	112.4	109.6
	ybrid 13 (Tiemann)	78.9	78.5	.49	17.1	100	101.0	112.0	109.2
8 Pioneer	Hi-Bred 333	79.5	78.2	1.62	16.4	100	101.0	111.6	109.0
9 Illinois I	Hybrid 201 (Wilson)	78.3	78.0	.38	16.0	100	101.0	111.3	108.7
	brid 523 (Moews-Lowe)	78.1	77.6	.58	16.7	100	101.0	110.7	108.3
	Hybrid 863 (Canterbury)	78.0	77.5	. 69	19.2 20.2	99 100	100.0	110.6	108.0 107.4
12 Pioneer 13 Illinois I	Hi-Bred 332 Hybrid 947 (Koch)	77.1 78.1	76.8 76.8	.44 1.68	18.5	98	101.0 99.0	109.6 109.6	107.4
	brid OK-99	76.8	76.2	.75	20.0	100	101.0	108.7	106.8
	Hybrid 885A (Henley)	76.1	76.0	.16	18.3	100	101.0	108.4	106.6
16 Bear Hy	brid OK-30	76.5	76.0	. 63	16.7	100	101.0	108.4	106.5
17 Macon l	Hvbrid 666	77.1	75.8	1.74	16.4	100	101.0	108.2	106.4
18 Illinois I	Hybrid 804 (Pfeifer)rid 200 (Macon Co. Seed Co.)	76.2	75.6	.84	18.0	100	101.0	107.9	106.2
19 Ill. Hybi	rid 200 (Macon Co. Seed Co.)	75.2	74.7	.70	17.5	100	101.0	106.6	105.2
20 M-L Hy 21 Iowealth	brid 500 (Moews-Lowe) Hybrid 28N	76.1 75.3	74.1 73.7	$\frac{2.59}{2.12}$	18.0 20.0	99 100	100.0 101.0	$\frac{105.7}{105.2}$	104.3 104.2
22 Bear Hy	brid OK-80	74.2	73.6	.78	17.4	99	100.0	105.0	103.8
	Whisnand Hyb. 834 (Whisnand)	74.6	73 5	1.41	18.3	99	100.0	104.9	103.7
23 Illinois I	Hybrid 566 (Pocklington)	73.8	73.5	.38	20.0	99	100.0	104.9	103.7
25 DeKalb	Hybrid 888	74.3	73.2	1.49	18.5	100	101.0	104.4	103.6
	ybrid G-46	73.1	72.9	.26	18.3	100	101.0	104.0	103.2
27 Iowealth	Hybrid 29A	73.4	72.5	1.21	17.8	100	101.0	103.5	102.9
28 Henley & 28 Illinois I	& Whisnand Hybrid 883 (Henley) Hybrid 784 (Powers)	$73.0 \\ 72.6$	$\frac{71.9}{71.7}$	1.47	$\frac{17.5}{20.3}$	99 100	100.0 101.0	102.6 102.3	102.0 102.0
30 Illinois I	Hybrid 877 (Kerns)	71.3	70.8	.70	18.5	100	101.0	101.0	101.0
31 *1Bear Hy	brid OK-97	72.5	72.1	. 62	20.6	92	92.9	102.9	100.4
31 ¹ DeKalb	Hybrid 816	74.1	70.2	5.21	17.2	100	101.0	100.2	100.4
33 Funk H	ybrid G-94	72.2	70.1	3.03	17.0	100	101.0	100.0	100.2
	rn Hybrid 55	71.5	70.3	1.73	20.6	98	99.0	100.3	100.0
35 DeKalb 35 Sibley F	Hybrid 899	70.8 70.1	69.8 69.6	1.44	$\frac{20.8}{18.5}$	99 100	100.0 101.0	99.6 99.3	99.7 99.7
37 Pioneer	Hi-Bred 332A	70.1	69.3	1.79	19.5	100	101.0	98.9	99.4
	Hybrid 801 (I.H.P.)	70.5	70.4	.11	20.3	94	94.9	100.5	99.1
39 M-L Hy	brid 830 (Moews-Lowe)	69.2	68.6	.80	17.4	100	101.0	97.9	98.7
	Hybrid 825	69.2	68.5	1.05	17.8	100	101.0	97.7	98.5
41 Crow H	ybrid 804	68.5	68.2	.48	18.0	100	101.0	97.3	98.2
42 Funk H 43 Seeber H	ybrid G-83 Hybrid 36	69.4 68.3	68.3 67.5	1.52 1.10	20.3 18.1	99 100	100.0 101.0	97.5 96.3	98.1 97.5
44 Crow H	vbrid 806	67.1	66.8	.45	20.7	98	99.0	95.3	96.2
44 ¹Illinois Ì	Hybrid 448 (Pfeifer)	67.1	66.7	. 60	20.7	98	99.0	95.2	96.2
46 ¹ Funk H	ybrid 806. Hybrid 448 (Pfeifer)ybrid G-88	65.7	65.5	. 24	21.8	100	101.0	93.5	95.4
47 *1 Henley d	k Whisnand Hyb. 851 (Whisnand)	66.6	64.9	2.52	19.4	100	101.0	92.6	94.7
48 Crow H	ybrid 701 (W)	63.4	63.2	. 28	18.3	100	101.0	90.2	92.9
49 Funk H	ybrid G-580 (W)	63.4	63.1	1.57	20.0 17.8	100 100	101.0 101.0	90.0 87.6	92.8 91.0
50 Funk H	ybrid 607vbrid G-80	61.7	61.4	.50	19.2	100	101.0	87.6	91.0
52 Holmes	ybrid G-80 Utility Hybrid 79	63.3	61.2	3.28	20.5	99	100.0	87.3	90.5
53 *Illinois	Hybrid 800 (1.H.P.)	58.1	57.9	.36	23.0	100	101.0	82.6	87.2
54 Wilson	Yellow Dent. Hybrid 919 (W)	59.4	59 1	. 55	20.1	94	94.9	84.3	87.0
55 DeKalb	Hybrid 919 (W)	58.4	58.3	. 24	20.4	96	97.0	83 2	86.6
	Hybrid 922 (W)	57.1	57.0	.26	20.1 18.5	99 95	100.0 96.0	81.3 81.8	86.0 85.4
57 Rice WI 58 Canterb	hite Dentvury Yellow Dent	57.4 56.3	57.3 56.3	0.00	20.1	99	100.0	80.3	85.2
Average	of 5 open-pollinated varieties	55.0	54.8	.31	19.4	97	98.2	78.3	83.3
	Golden Beauty		51.9	.37	18.5	99	100.0	74.1	80.6
	White Dent	49.8	49.6	. 44	20.0	99	100.0	70.8	78.1
Ave	erage of all entries	70.9	70.1	1.10	18.7	99.1			
1410									

^{*}Less than 5 bushels of seed sampled. ¹Average of 9 plots instead of 10.

A difference of less than 4.1 bushels between total yields of any two entries in this table is not significant.

Table 20.—EAST SOUTH-CENTRAL ILLINOIS: Sullivan Summaries

Canalage			Acre	-yield	Damaged eorn in	Mois- ture in	Erect	R	lating for	
Null-Vollmer Hybrid NV-10 (Vollmer)	Rank	Entry			 shelled 	grain at				General perform
1 Null-Vollmer Hybrid N-01 (Nollmer) 90.4 90.0 50 15.2 97.5 104.2 109.4 108.1 Null-Vollmer Hybrid N-61 90.7 90.4 33 14.4 95.5 102.0 109.8 107.8 3 U.S. Hybrid 13 88.4 87.2 1.20 15.6 98.0 104.7 106.0 105.7 107.0 11.5 10.5 10.5 10.5 10.5 10.5 10.5 10		(A) Average yie	Id of e	ntries g	grown in	1939	and 194	10		
1 Null-Vollmer Hybrid N-01 (Nollmer) 90.4 90.0 50 15.2 97.5 104.2 109.4 108.1 Null-Vollmer Hybrid N-61 90.7 90.4 33 14.4 95.5 102.0 109.8 107.8 3 U.S. Hybrid 13 88.4 87.2 1.20 15.6 98.0 104.7 106.0 105.7 107.0 11.5 10.5 10.5 10.5 10.5 10.5 10.5 10			hu.	hu.	nerct	neret	nerct	nerct	nerci	
2 Null Hybrid N-61. 99.7 90.4 33 14 4 95.5 102.0 109.8 107.4 101.0 105.7 4 11linois Hybrid 385A (Henley) 90.2 88.8 1.16 15.6 92.5 98.8 104.7 106.0 105.7 4 11linois Hybrid 20.0 Cakes) 87.2 87.2 1.16 11.8 97.5 104.5 106.0 105.6 7 Point Phytrid 120 (Oakes) 87.2 87.2 1.5 11.4 8 97.5 104.5 106.0 105.6 7 Point Phytrid 120 (Oakes) 87.2 87.7 1.2 15.6 10.6 10.5 106.0 105.6 106.0 105.0 106.0 105.6 106.0 105.0 105.0	1	Null-Vollmer Hybrid NV-10 (Vollmer)								108 1
1		Null Hybrid N-61			.33					
4 Illinois Hybrid (26) (Oakes)	3	U. S. Hybrid 13		87.2	1.20	15.6				
6 Punk Hybrid G-83		Illinois Hybrid 885A (Henley)	90.2							105.6
7 Pioneer Hi-Bred 313		Funds Hybrid C 82								
8 Illinois Hybrid 877. 88.4 87.7 80 16.2 93.2 99.6 106.6 104.9 88.5 81 Illinois Hybrid 200. 88.5 87.2 1.39 15.4 95.0 101.5 106.0 104.9 10 Bear Hybrid OK-30. 87.7 87.1 72 15.7 95.5 102.0 105.8 104.8 11 Bear Hybrid OK-30. 86.6 86.2 46 15.1 94.5 101.0 104.7 103.8 11 Illinois Hybrid 784. 87.8 86.1 1.76 17.9 94.8 101.3 104.6 103.8 11 Illinois Hybrid 784. 87.8 86.1 1.76 17.9 94.8 101.3 104.6 103.8 13.1 DeKalb Hybrid 899. 87.6 86.3 1.46 18.2 92.2 98.5 104.9 103.3 14.1 Illinois Hybrid 863. 88.0 86.4 1.68 17.0 91.5 97.8 105.0 103.2 15.1 Illinois Hybrid 947 (Koch). 86.4 84.2 4.06 15.2 95.8 102.4 102.3 102.3 17.1 Punk Hybrid 947 (Koch). 86.4 84.2 4.06 15.2 95.8 102.4 102.3 102.3 17.1 Punk Hybrid 947 (Koch). 86.4 84.2 1.22 17.0 94.0 100.4 102.3 101.8 19.1 Punk Hybrid 948 16.8 87.6 84.2 1.22 17.0 94.0 100.4 102.3 101.8 19.1 Punk Hybrid 948 16.8 84.4 82.9 1.56 16.4 96.5 103.1 100.7 101.3 102.2 17.0 194.0 100.4 102.3 101.8 19.1 Punk Hybrid 948 16.8 84.4 82.9 1.56 16.4 96.5 103.1 100.7 101.3 102.2 10.2 10.2 10.2 10.2 10.2 10.2 10.		Pioneer Hi-Bred 313								
8 Illinois Hybrid 200. 88 1, 87 2 1 39 15 4 95.0 101 5 106.0 104.9 10 Bear Hybrid OK-80. 87.7 87.1 72 15.7 95.5 102.0 105.8 104.8 11 Bear Hybrid OK-80. 87.8 87.1 72 15.7 95.5 102.0 105.8 104.8 11 Bear Hybrid OK-30. 86.6 86.2 46 15.1 94.8 101.0 104.7 103.8 11 Illinois Hybrid 784. 87.8 86.1 1.76 17.9 94.8 101.3 104.6 103.8 13 DeKalb Hybrid 899. 87.6 86.3 1.46 18.2 92.2 98.5 104.9 103.3 14 Illinois Hybrid 899. 87.6 86.3 1.46 18.2 92.2 98.5 104.9 103.3 103.1 104.6 103.8 13 DeKalb Hybrid 899. 88.0 86.4 1.66 17.0 91.5 97.8 105.0 103.2 15 Illinois Hybrid 947 (Kocb). 88.4 85.4 1.36 16.0 93.8 100.2 103.8 100.2 103.8 100.2 103.8 102.9 16.0 DeKalb Hybrid 891.6 87.6 84.2 4.06 15.2 95.8 102.4 102.3 102.3 17.4 Park Hybrid G-80. 84.4 83.4 96 17.4 98.2 104.9 101.3 102.2 18.1 104.9 101.3 102.2 18.1 104.9 101.3 102.2 18.1 104.9 101.3 102.2 18.1 104.9 101.3 102.2 18.1 104.9 101.3 102.2 18.1 104.9 101.3 102.2 18.1 104.9 101.3 102.2 18.1 104.9 101.3 102.2 19.1 104.9 101.3 102.2 19.1 104.9 101.3 102.2 19.1 104.9 101.3 102.2 19.1 104.9 101.3 102.2 19.1 104.9		Illinois Hybrid 877								
11 Bear Hybrid OK-3-0. 86.6 86.2 46 15.1 94.5 101.0 104.7 103.8 11 Illinois Hybrid 784 87.8 86.1 1.76 17.9 94.8 101.3 104.6 103.8 13 DeKalb Hybrid 899 87.6 86.3 1.46 18.2 92.2 98.5 104.9 103.3 14 Illinois Hybrid 899 87.6 86.3 1.46 18.2 92.2 98.5 104.9 103.3 104.1 Illinois Hybrid 899 87.6 86.3 1.46 18.2 92.2 98.5 104.9 103.3 104.1 Illinois Hybrid 891 88.0 88.0 86.4 1.36 16.0 93.8 100.2 103.8 102.9 103.3 104.1 Illinois Hybrid 947 (Kocb) 86.4 85.4 1.36 16.0 93.8 100.2 103.8 102.9 104.8 102.3 10		Illinois Hybrid 200	88.5					101.5		
11 Illinois Hybrid 784		Bear Hybrid OK-80	87.7							
13 DeKalb Hybrid 899		Illinois Hybrid 784		86.2 86.1						
14 Illinois Hybrid 863.	13	DeKalb Hybrid 899		86.3						
16 DeKalb Hybrid 816	14	Illinois Hybrid 863	88.0	86.4	1.68	17.0	91.5	97.8	105.0	103.2
17 Funk Hybrid G-80	15	Illinois Hybrid 947 (Koch)								
18 lowealth Hybrid 28N 85.2 84.2 1.22 17.0 94.0 100.4 100.3 101.8		Funk Hubrid C 80				15.2				
19 Funk Hybrid G-46	18	Iowealth Hybrid 28N			1 22	17.4	94.0		101.3	
20 Crow Hybrid 806. 84.6 83.8 8.2 18.2 92.5 98.8 101.8 101.1 104.104. 100.6 22 DeKalb Hybrid 825. 76.6 76.1 81 15.2 98.5 105.2 92.5 95.7 32 Crow Hybrid 825. 76.6 76.1 81 15.2 98.5 105.2 92.5 95.7 32 Crow Hybrid 824. 77.2 75.6 1.78 17.2 95.5 102.0 91.9 94.4 424 Wilson Yellow Dent. 76.1 75.2 1.03 17.2 87.0 93.0 92.5 92.6 25 Rice White Dent. 75.8 74.6 1.30 16.4 87.5 93.5 90.6 91.3 80.6 Crow Hybrid 701 (W) 74.4 73.4 1.21 17.6 88.5 94.6 89.2 90.6 27 DeKalb Hybrid 922 (W) 72.4 71.7 89 18.5 93.2 99.6 87.1 90.2 80.2 20.6 Crow Hybrid 701 (W) 72.4 71.7 89 18.5 93.2 99.6 87.1 90.2 80.2 Bunning White Dent. 73.6 72.5 1.25 17.4 89.0 95.1 88.0 89.8 40.0 89.2 Bunning White Dent. 72.2 71.1 1.41 17.0 88.2 94.2 87.7 89.3 98.0 Bunning White Dent. 72.2 71.1 1.41 17.6 88.2 94.2 87.7 89.3 98.0 Bunning White Dent. 72.2 71.1 1.41 17.6 88.9 89.9 95.1 82.1 85.4 Average of all entries 83.5 82.3 1.28 16.5 93.6	19	Funk Hybrid G-46							100.7	
22 Dekalb Hybrid 825. 76.6 76.1 81 15.2 98.5 105.2 92.5 95.7 23 Crow Hybrid 804. 77.2 75.6 1.78 17.2 95.5 102.0 91.9 94.4 24 Wilson Yellow Dent. 76.1 75.2 1.03 17.2 87.0 93.0 92.5 92.6 25 Rice White Dent. 75.8 74.6 1.30 16.4 87.5 93.5 90.6 91.3 26 Crow Hybrid 701 (W). 74.4 73.4 1.21 17.6 88.5 94.6 89.2 90.6 27 DeKalb Hybrid 922 (W). 72.4 71.7 89.1 18.5 19.2 99.5 1 88.0 89.8 28 Canterbury Yellow Dent. 73.6 72.5 1.25 17.4 89.0 95.1 88.0 89.8 28 Canterbury Yellow Dent. 73.2 72.2 1.11 17.0 88.2 94.2 87.7 89.3 29 Bunning White Dent. 72.2 71.1 1.41 17.6 88.8 94.2 87.7 89.3 29 Bunning White Dent. 72.2 71.1 1.41 17.6 88.8 94.2 87.7 89.3 20 Bunning White Dent. 72.2 71.1 1.41 17.6 88.8 94.2 87.7 89.3 20 Bunning White Dent. 72.2 71.1 1.41 17.6 88.8 94.2 87.7 89.3 20 Bunning White Dent. 72.2 71.1 1.41 17.6 88.8 94.2 87.7 89.3 21 Bunning White Dent. 72.2 71.1 1.41 17.6 88.8 94.2 87.7 89.3 22 Bunning White Dent. 72.2 71.1 1.41 17.6 88.8 94.2 87.7 89.3 23 Bunning White Dent. 82.8 83.3 1.28 16.5 93.6 (B) Average yield of entries grown in 1938, 1939, 1940 1 Illinois Hybrid 784. 86.4 84.2 2.49 18.6 87.5 105.7 11.1 1 109.8 28.2 88.3 17.9 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10	20	Crow Hybrid 806								
23 Crow Hybrid 804. 77. 2 75. 6 1. 78 17. 2 95. 5 102. 0 91. 9 94. 4 Wilson Yellow Dent 76. 1 75. 2 1.03 17. 2 87. 0 93. 0 92. 5 92. 6 25 Rice White Dent. 75. 8 74. 6 1. 30 16. 4 87. 5 93. 5 90. 6 91. 3 26 Crow Hybrid 701 (W) 74. 4 73. 4 1. 21 17. 6 88. 5 94. 6 89. 2 90. 6 70 DeKalb Hybrid 922 (W) 72. 4 71. 7 89 18. 5 93. 2 99. 6 87. 1 90. 2 8 Canterbury Yellow Dent. 73. 6 72. 5 1. 25 17. 4 89. 0 95. 1 88. 0 89. 8 4		DeKalb Hybrid 888								
24 Wilson Yellow Dent. 76.1 75.2 1.03 17.2 87.0 93.0 92.5 92.6 25 Rice White Dent. 75.8 74.6 1.30 16.4 87.5 93.5 90.6 91.3 25 Rice White Dent. 75.8 74.6 1.30 16.4 87.5 93.5 90.6 91.3 25 Rice White Dent. 75.8 74.6 1.30 16.4 87.5 93.5 90.6 91.3 26 Crow Hybrid 701 (W) 74.4 73.4 1.21 17.6 88.5 94.6 89.2 90.6 27 DeKalb Hybrid 922 (W) 72.4 71.7 89 18.5 93.2 99.6 87.1 90.2 26 Canterbury Yellow Dent. 73.6 72.5 1.25 17.4 89.0 95.1 88.0 89.8 40.8 40.8 40.8 40.8 40.8 40.8 40.8 40	23	Crow Hubrid 804	77.9							
1	24		76.1							
27 DeKalb Hybrid 922 (W)	25	Rice White Dent	75.8	74.6	1.30	16.4	87.5			
## Average of 5 open-pollinated varieties	26	Crow Hybrid 701 (W)								90.6
● Average of 5 open-pollinated varieties		Centerbury Vellow Dent				18.5				
Bunning White Dent. 72.2 71.1 1.41 17.6 88.8 94.9 86.4 88.5	40	Average of 5 open-pollinated varieties		72.2						
Shuman Golden Beauty	29	Bunning White Dent				17.6				
(B) Average yield of entries grown in 1938, 1939, 1940 1 Illinois Hybrid 784. 86, 4 84, 2 2, 49 18, 6 87, 5 105, 7 111, 1 109, 8 2 Bear Hybrid OK-30 83, 6 83, 3 39, 15, 4 86, 7 104, 7 109, 9 108, 6 3 Froncer Hi-Bred 313. 86, 8 85, 5 1, 51 17, 4 77, 7 93, 8 112, 8 108, 1 4 Funk Hybrid G-46. 80, 7 78, 7 2, 39 17, 2 86, 7 104, 7 103, 8 104, 2 5 DeKalb Hybrid 863. 80, 6 78, 9 2, 08, 17, 4 83, 0 100, 2 104, 1 103, 1 5 DeKalb Hybrid 825, 76, 9 76, 5 54, 15, 7 90, 8 109, 7 100, 9 103, 1 7 Illinois Hybrid 804. 74, 2 72, 8 1, 83, 17, 1 82, 0 99, 0 96, 0 96, 8 9 Wilson Yellow Dent, 73, 7 72, 2 1, 97, 17, 7 80, 5 97, 2 95, 3 95, 8 10 Canterbury Yellow Dent, 72, 5 71, 6 68, 17, 9 81, 3 98, 2 94, 5 95, 4 11 Bunning White Dent, 72, 9 72, 0 1, 99, 17, 5 79, 3 95, 6 95, 0 95, 2 12 Rice White Dent, 72, 6 71, 8 1, 20, 16, 8 77, 8 94, 0 94, 7 94, 5 13 Crow Hybrid 701 (W), 71, 5 70, 6 1, 99, 17, 6 80, 3 97, 0 93, 1 94, 1 4 Average of 5 open-pollinated varieties 71, 3 70, 4 1, 13 17, 3 80, 0 96, 8 92, 9 93, 8 4 Shuman Golden Beauty, 64, 76, 9 75, 8 1, 34, 17, 1 82, 8 (C) Average yield of entries grown in 1937, 1938, 1939, 1940 1 Funk Hybrid 825, 83, 6 83, 2 51, 16, 8 91, 1 15, 8 101, 0 104, 7 1 Illinois Hybrid 863, 90, 0 88, 6 1, 69, 18, 1 77, 8 98, 9, 107, 5 105, 4 1 Illinois Hybrid 863, 90, 8 86, 1, 69, 18, 1 77, 8 98, 9, 107, 5 105, 4 1 Illinois Hybrid 863, 90, 8 86, 1, 69, 18, 1 77, 8 98, 9, 107, 5 105, 4 1 Illinois Hybrid 863, 90, 8 86, 1, 69, 18, 1 77, 8 98, 9, 107, 5 105, 4 1 Illinois Hybrid 863, 90, 8 86, 1, 69, 18, 1 77, 8 98, 9, 107, 5 105, 4 1 Illinois Hybrid 863, 90, 8 86, 8 80, 18, 9, 11, 115, 8 101, 0 104, 7 1 Illinois Hybrid 863, 90, 8 86, 8 86, 88, 8 87, 2 1, 16, 8 91, 1 115, 8 101, 0 104, 7 1 Illinois Hybrid 863, 90, 90, 88, 18, 90, 17, 18, 5 103, 6 101, 6 102, 1 2 Funk Hybrid 6947, 84, 48, 83, 7, 92, 171, 81, 5 103, 6 101, 6 102, 1 3 DeKalb Hybrid 863, 90, 88, 6 18, 9, 34, 17, 7, 24, 92, 0, 99, 99, 96, 6 4 Nevage of 5 open-pollinated varieties, 79, 8, 88, 81, 80, 91, 71, 71, 91, 1 95, 8 94, 6 4 Verage of 5 ope	30	Shuman Golden Beauty				16.4		95.1	82.1	85.4
1 Illinois Hybrid 784. 86.4 84.2 2.49 18.6 87.5 105.7 111.1 109.8 2 Bear Hybrid OK-30 83.6 83.3 .39 15.4 86.7 104.7 109.9 108.6 3 Proneer Hi-Bred 313. 86.8 85.5 1.51 17.4 77.7 93.8 112.8 108.1 4 Funk Hybrid G-46. 80.7 78.7 2.39 17.2 86.7 104.7 103.8 104.0 5 Illinois Hybrid 863. 80.6 78.9 2.08 17.4 83.0 100.2 104.1 103.1 5 DeKalb Hybrid 825. 76.9 76.5 54 15.7 90.8 109.7 100.9 103.1 5 DeKalb Hybrid 825. 76.9 76.5 54 15.7 90.8 109.7 100.9 103.1 7 Illinois Hybrid 947. 79.3 78.5 1.04 16.5 83.8 101.2 103.6 103.0 8 Crow Hybrid 804. 74.2 72.8 1.83 17.1 82.0 99.0 96.0 96.8 9 Wilson Yellow Dent. 73.7 72.2 1.97 17.7 80.5 97.2 95.3 95.8 10 Canterbury Yellow Dent. 72.5 71.6 68 17.9 81.3 98.2 94.5 95.4 18 Bunning White Dent. 72.9 72.0 1.09 17.5 79.3 95.6 95.0 95.2 12 Rice White Dent. 72.6 71.8 1.20 16.8 77.8 94.0 94.7 94.5 12 Rice White Dent. 72.6 71.8 1.20 16.8 77.8 94.0 94.7 94.5 14 Average of 5 open-pollinated varieties 71.3 70.4 1.13 17.3 80.0 96.6 92.9 93.8 14 Average of 5 open-pollinated varieties 76.9 75.8 1.34 17.1 82.8		Average of all entries	83.5	82.3	1.28	16.5	93.6			
2 Bear Hybrid ON-30.		(B) Average yield	l of en	tries g	rown in	1938,	1939, 1	940		
2 Bear Hybrid ON-30.		Illinois Hybrid 784.		84.2		18.6		105.7		109.8
4 Funk Hybrid G-46. 80.7 78.7 2.39 17.2 86.7 104.7 103.8 104.0 5 Illinois Hybrid 863. 80.6 78.9 2.08 17.4 83.0 100.2 104.1 103.5 5 DeKalb Hybrid 825. 76.9 76.5 .54 15.7 90.8 109.7 100.9 103.1 7 111110018 Hybrid 947. 79.3 78.5 1.04 16.5 83.8 101.2 103.6 103.0 8 Crow Hybrid 844. 74.2 72.8 1.83 17.1 82.0 99.0 99.0 96.0 96.8 9 Wilson Yellow Dent. 73.7 72.2 1.97 17.7 80.5 97.2 95.3 95.8 10 Canterbury Yellow Dent. 72.5 71.6 .68 17.9 81.3 98.2 94.5 95.4 11 Bunning White Dent. 72.9 72.0 1.09 17.5 79.3 95.6 95.0 95.2 12 Rice White Dent. 72.6 71.8 1.20 16.8 77.8 94.0 94.7 94.5 12 Rice White Dent. 71.5 70.6 1.09 17.6 80.3 97.0 93.1 94.1 4 Average of 5 open-pollinated varieties 71.3 70.4 1.13 17.3 80.0 96.6 92.9 93.8 4 Shuman Golden Beauty 64.7 64.4 46 16.7 81.3 98.2 85.0 88.3 Average of all entries 76.9 75.8 1.34 17.1 82.8 (C) Average yield of entries grown in 1937, 1938, 1939, 1940 1 Funk Hybrid G-46. 88.7 87.2 1.86 17.8 85.8 109.0 105.8 106.6 11 11 11 11 11 11 11 11 11 11 11 11 11		Bear Hybrid UK-30		83.3	.39	15.4	86.7			
5 Illinois Hybrid 863. 80.6 78.9 2.08 17.4 83.0 100.2 104.1 103.1 5 DeKalb Hybrid 825. 76.9 76.9 76.5 54 15.7 90.8 109.7 100.9 103.1 7 Illinois Hybrid 947. 79.3 78.5 1.04 16.5 83.8 101.2 103.6 103.0 8 Crow Hybrid 804. 74.2 72.8 1.83 17.1 82.0 99.0 96.0 96.8 9 Wilson Yellow Dent. 73.7 72.2 1.97 17.7 80.5 97.2 95.3 95.8 10 Canterbury Yellow Dent. 72.5 71.6 68 17.9 81.3 98.2 94.5 95.4 18 Bunning White Dent. 72.9 72.0 1.09 17.5 79.3 95.6 95.0 95.2 12 Rice White Dent. 72.6 71.8 1.20 16.8 77.8 94.0 94.7 94.5 13 Crow Hybrid 701 (W). 71.5 70.6 1.09 17.6 70.3 95.0 93.1 94.1 1		Funk Hybrid G-46		78.7		17.2	86.7			
5 DeKalb Hybrid 825. 76.9 76.5 54 15.7 99.8 109.7 100.9 103.1 7 Illinois Hybrid 947. 79.3 78.5 1.04 16.5 83.8 101.2 103.6 103.0 8 Crow Hybrid 804. 74.2 72.8 1.83 17.1 82.0 99.0 96.0 96.8 9 Wilson Yellow Dent. 73.7 72.2 1.97 17.7 80.5 97.2 95.3 95.8 11 Bunning White Dent. 72.5 71.6 68 17.9 81.3 98.2 94.5 95.4 11 Bunning White Dent. 72.9 72.0 1.09 17.5 79.3 95.6 95.0 95.2 12 Rice White Dent. 72.6 71.8 1.20 16.8 77.8 94.0 94.7 94.5 13 Crow Hybrid 701 (W). 71.5 70.6 1.09 17.6 80.3 97.0 93.1 94.1 4 Average of 5 open-pollinated varieties 71.3 70.4 1.13 17.3 80.0 96.6 92.9 93.8 4 Shuman Golden Beauty. 76.9 75.8 1.34 17.1 82.8						17.4				103.1
8 Crow Hybrid 804. 74. 2 72.8 1.83 17.1 82.0 99.0 96.0 96.8 97.2 9 Wilson Yellow Dent. 73.7 72.2 1.97 17.7 80.5 97.2 95.3 95.8 10 Canterbury Yellow Dent. 72.5 71.6 68 17.9 81.3 98.2 94.5 95.4 18 19 10 19 17.5 79.3 95.6 95.0 95.2 12 Bunning White Dent. 72.9 72.0 1.99 17.5 79.3 95.6 95.0 95.2 12 Rice White Dent. 72.6 71.8 1.20 16.8 77.8 94.0 94.7 94.5 13 Crow Hybrid 701 (W). 71.5 70.6 1.09 17.6 80.3 97.0 93.1 94.1 4 4 4 4 18 18.3 18.3 98.2 85.0 88.3 4 4 4 4 4 4 18 16.7 81.3 98.2 85.0 88.3 Average of 3 open-pollinated varieties 76.9 75.8 1.34 17.1 82.8		DeKalb Hybrid 825				15.7				103.1
10 Canterbury Yellow Dent. 72.9 72.0 1.09 17.5 79.3 95.6 95.0 95.2 12 Rice White Dent. 72.9 72.0 1.09 17.5 79.3 95.6 95.0 95.2 12 Rice White Dent. 72.6 71.8 1.20 16.8 77.8 94.0 94.7 94.5 13. Crow Hybrid 701 (W). 71.5 70.6 1.09 17.6 80.3 97.0 93.1 94.1 ■ Average of 5 open-pollinated varieties. 71.3 70.4 1.13 17.3 80.0 96.6 92.9 93.8 Average of all entries. 76.9 75.8 1.34 17.1 82.8 (C) Average yield of entries grown in 1937, 1938, 1939, 1940 1 Funk Hybrid G-46. 88 7 87.2 1.86 17.8 85.8 109.0 105.8 106.6 105.0 105		Crow Websid 804								
10 Canterbury Yellow Dent. 72.9 72.0 1.09 17.5 79.3 95.6 95.0 95.2 12 Rice White Dent. 72.9 72.0 1.09 17.5 79.3 95.6 95.0 95.2 12 Rice White Dent. 72.6 71.8 1.20 16.8 77.8 94.0 94.7 94.5 13. Crow Hybrid 701 (W). 71.5 70.6 1.09 17.6 80.3 97.0 93.1 94.1 ■ Average of 5 open-pollinated varieties. 71.3 70.4 1.13 17.3 80.0 96.6 92.9 93.8 Average of all entries. 76.9 75.8 1.34 17.1 82.8 (C) Average yield of entries grown in 1937, 1938, 1939, 1940 1 Funk Hybrid G-46. 88 7 87.2 1.86 17.8 85.8 109.0 105.8 106.6 105.0 105	9	Wilson Yellow Dent				17.7				
11 Bunning White Dent. 72.9 72.0 1.09 17.5 79.3 95.6 95.0 95.2 22 Rice White Dent. 72.6 71.8 1.20 16.8 77.8 94.0 94.7 94.5 123 Crow Hybrid 701 (W). 71.5 70.6 1.09 17.6 80.3 97.0 93.1 94.1 ■ Average of 5 open-pollinated varieties 71.3 70.4 1.13 17.3 80.0 96.6 92.9 93.8 44 Shuman Golden Beauty. 76.9 75.8 1.34 17.1 82.8	10	Canterbury Yellow Dent								95.4
13 Crow Hybrid 701 (W)	11	Bunning White Dent			1.09					
● Average of 5 open-pollinated varieties		Rice White Dent							94.7	
Shuman Golden Beauty	10	Average of 5 open-polling ted varieties		70.6 70.4					93.1	
Average of all entries 76.9 75.8 1.34 17.1 82.8	14	Shuman Golden Beauty								88.3
1 Funk Hybrid G-46. 88 7 87.2 1.86 17.8 85.8 109.0 105.8 106.6 2 1llinois Hybrid 863. 90.0 88.6 1.69 18.1 77.8 98.9 107.5 105.4 3 DeKalb Hybrid 825 83.6 83.2 51 16.8 91.1 115.8 101.0 104.7 115.5 Hybrid 947. 84.4 83.7 92.1 17.1 81.5 103.6 101.6 102.1 5 Bunning White Dent 82.6 81.9 84 17.7 72.4 92.0 99.4 97.6 Rice White Dent 82.3 81.5 90 17.6 70.1 89.1 98.9 96.4 6 Rice White Dent 82.3 81.5 90 17.6 70.1 89.1 98.9 98.4 6 Average of 5 open-pollinated varieties 79.6 78.9 88 18.0 71.7 91.1 95.8 94.6 7 Shuman Golden Beauty. 71.1 70.8 34 17.9 72.0 91.5 85.9 87.3										
1 Funk Hybrid G-46. 88 7 87.2 1.86 17.8 85.8 109.0 105.8 106.6 2 1llinois Hybrid 863. 90.0 88.6 1.69 18.1 77.8 98.9 107.5 105.4 3 DeKalb Hybrid 825 83.6 83.2 51 16.8 91.1 115.8 101.0 104.7 115.5 Hybrid 947. 84.4 83.7 92.1 17.1 81.5 103.6 101.6 102.1 5 Bunning White Dent 82.6 81.9 84 17.7 72.4 92.0 99.4 97.6 Rice White Dent 82.3 81.5 90 17.6 70.1 89.1 98.9 96.4 6 Rice White Dent 82.3 81.5 90 17.6 70.1 89.1 98.9 98.4 6 Average of 5 open-pollinated varieties 79.6 78.9 88 18.0 71.7 91.1 95.8 94.6 7 Shuman Golden Beauty. 71.1 70.8 34 17.9 72.0 91.5 85.9 87.3		(C) Average yield o	f entri	es grow	n in 19	37, 193	8, 1939	, 1940		
2 Illinois Hybrid 863 90.0 88.6 1.69 18.1 77.8 98.9 107.5 105.4 3 DeKalb Hybrid 825 83.6 83.2 51 16.8 91.1 115.8 101.0 104.7 4 Illinois Hybrid 947 84.4 83.7 92 17.1 81.5 103.6 101.6 102.1 5 Bunning White Dent 82.6 81.9 84 17.7 72.4 92.0 99.4 97.6 6 Rice White Dent 82.3 81.5 90 17.6 70.1 89.1 98.9 96.4	1								105.8	106.6
3 Dekalb Hybrid 825. 83.6 83.2 51 16.8 91.1 115.8 101.0 104.7 14 Illinois Hybrid 947. 84.4 83.7 92 17.1 81.5 103.6 101.6 102.1 5 Bunning White Dent. 82.6 81.9 84 17.7 72.4 92.0 99.4 97.6 6 Rice White Dent. 82.3 81.5 90 17.6 70.1 89.1 98.9 96.4 6 Average of 5 open-pollinated varieties. 79.6 78.9 88 18.0 71.7 91.1 95.8 94.6 7 Shuman Golden Beauty. 71.1 70.8 34 17.9 72.0 91.5 85.9 87.3	2	Illinois Hybrid 863	90.0	88.6	1.69	18.1	77.8	98.9		105.4
5 Bunning White Dent		DeKalb Hybrid 825		83.2	.51	16.8	91.1	115.8	101.0	104.7
7 Shuman Golden Beauty		Hinois Hybrid 947				17.1				
7 Shuman Golden Beauty	6 6	Rice White Dent								
7 Shuman Golden Beauty	~	Average of 5 open-pollinated varieties								
Average of all entries	7	Shuman Golden Beauty								
			83.2	82.4	1.01	17.6	78.7			

Table 21.—WEST SOUTH-CENTRAL ILLINOIS: Greenfield

		Acre	-yield	Damaged corn in	Mois- ture in	Erect -	I	lating for	_
Ranl	Entry	Total	Sound	- shelled sample	grain at harvest	plants	Erect plants	Sound yield	Genera perforn
	1940	bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	U. S. Hybrid 5 (Oakes)	102.2	101.7	.51	15.2	99	100.9	123.4	117.8
2	DeKalb Experimental Hybrid 93	101.6	100.4	1.23	16.9	100	101.9	121.8	116.8
3	Pioneer Hi-Bred 313	99.4	99.2	.20	19.2	97	98.9	120.4	115.0
5	*Pioneer Hi-Bred 300	99.6 98.4	98.4 97.9	1.20	15.9 15.9	99 100	100.9 101.9	119.4 118.8	114.8 114.6
6	U. S. Hybrid 13 (Burrus)	96.5	94.8	1.74	16.2	100	101.9	115.0	111.7
7	M-L Hybrid 500 (Moews-Lowe)	95.1	94.5	.59	17.8	100	101.9	114.7	111.5
8	Pioneer Hi-Bred 332	93.5	92.8	. 64	19.4	100	101.9	112.6	109.9
9	Illinois Hybrid 247 (Canterbury)	92.9	92.1	. 90	16.7	100	101.9	111.8	109.3
9 11	U. S. Hybrid 13 (Tiemann)* *Ioweatlh Hybrid TX 2	$92.5 \\ 92.2$	92.1 92.0	.38 .18	16.9 20.0	100 99	101.9 100.9	111.8 111.7	109.3 109.0
12	DeKalb Experimental Hybrid 92	91.6	90.7	.98	18.0	100	101.9	110.1	108.1
13	M-L Hybrid 523 (Moews-Lowe)	90.7	90.0	.74	16.7	100	101.9	109.2	107.4
	*Null-Vollmer Hybrid NV-47 (Vollmer)	90.8	89.7	1.23	16.6	100	101.9	108.9	107.2
15	Illinois Hybrid 805 (Holmes)	91.0	90.0	1.12	16.0	99	100.9	109.2	107.1
16	Pioneer Hi-Bred 307	90.6	89.6	1.10	16.1	99 94	100.9	108.7	106.8
17 18	Illinois Hybrid 885A (Pfeifer) *Null Hybrid N-81	$91.8 \\ 90.9$	$90.7 \\ 90.3$	1.16 .62	17.1 18.0	95	95.8 96.8	110.1 109.6	106.5 106.4
19	Illinois Hybrid 206 (Henley)	89.1	88.8	.35	15.6	100	101.9	107.8	106.3
	*Pfeifer Hybrid A-1-40	89.2	88.4	.92	16.4	100	101.9	107.3	106.0
21	DeKalb Hybrid 816	89.0	88.3	.84	17.0	100	101.9	107.2	105.9
22	Illinois Hybrid 200 (Wilson)	88.6	88.5	.12	15.9	100	101.9	107.4	105.8
23 24	Pioneer Hi-Bred 333 DeKalb Experimental Hybrid 83	87.5 87.4	86.7	$\frac{.95}{1.28}$	$\frac{15.7}{17.9}$	99	100.9	105.2	104.1
25	Illinois Hybrid 450 (Whisnand)	87.1	86.3 86.9	.25	18.5	100 93	101.9 94.8	104.7 105.5	104.0 102.8
26	DeKalb Experimental Hybrid 87	87.8	86.0	2.06	19.4	95	96.8	104.4	102.5
27	Illinois Hybrid 566 (Pocklington)	84.7	84.2	.56	18.8	99	100.9	102.2	101.9
28	Iowealth Hybrid 28N	85.0	84.4	.72	17.7	97	98.9	102.4	101.5
29	*Bear Hybrid OK-93	87.1	83.7	3.90	18.0	98	99.9	101.6	101.2
29 31	Funk Hybrid G-135	83.8 84.1	83.5 83.3	.33	$\frac{19.2}{19.0}$	99 98	100.9 99.9	101.3 101.1	101.2 100.8
32	Funk Hybrid G-46 DeKalb Hybrid 888	83.1	82.4	1.01	16.8	100	101.9	100.0	100.5
33	Funk Hybrid G-83	82.3	82.2	.14	19.5	99	100.9	99.8	100.1
34	Funk Hybrid G-83. Illinois Hybrid 448 (Dallmier)	82.1	81.7	.51	19.0	100	101.9	99.2	99.9
35	DeKalb Hybrid 899	81.5	81.1	.50	20.3	100	101.9	98.4	99.3
36	Funk Hybrid G-88	80.8 81.9	80.3	.60	20.5	100	101.9	97.5	98.6 98.4
37 37	*Bear Hybrid OK-98	80.9	81.5 80.1	.48	19.4 17.1	95 100	96.8 101.9	$\frac{98.9}{97.2}$	98.4
39	Funk Hybrid G-84	81.5	81.1	.45	17.5	96	97.9	98.4	98.3
40	Iowealth Hybrid 29A		78.9	.26	18.5	100	101.9	95.8	97.3
41	Illinois Hybrid 877 (Burrus)	80.2	80.1	.16	19.5	95	96.8	97.2	97.1
41	*Null Hybrid N-28	79.1	78.7	.46	17.4	100	101.9	95.5	97.1
43 44	Crow Hybrid 804. *Null-Vollmer Hybrid NV-96 (Vollmer)	$\frac{80.3}{79.1}$	78.6 78.3	2.14 .95	$17.4 \\ 18.3$	100 100	101.9 101.9	95.4 95.0	97.0 96.7
45	Richbred Hybrid 1002	78.1	77.8	.36	18.3	98	99.9	94.4	95.8
	*E. W. Doubet Hybrid D16	78.2	77.9	.32	16.5	97	98.9	94.5	95.6
47	Pioneer Hi-Bred 332A	78.6	75.5	3.93	17.7	100	101.9	91.6	94.2
48	Bear Hybrid OK-78	76.3	75.8	. 64	18.0	98	99.9	92.0	94.0
49 50	Illinois Hybrid 784 (Burrus)*Funk Hybrid G-99	77.4 75.1	75.6 74.6	2.35	18.0 19.2	97 100	98.9 101.9	91.7 90.5	93.5 93.4
51	Illinois Hybrid 784 (Pocklington)	72.3	71.9	.58	20.0	100	101.9	87.3	91.0
52	Illinois Hybrid 863 (Burrus)	74.6	74.0	.82	19.5	92	93.8	89.8	90.8
52	Crow Hybrid 806. Funk Hybrid G-80.	72.9	71.8	1.54	19.2	100	101.9	87.1	90.8
54	Funk Hybrid G-80	71.6	70.1	2.04	19.0	100	101.9	85.1	89.3
55	Rice White Dent	65.9	65.5	.60	17.8	90	91.7	79.5	82.6
56 57	Crow Hybrid 701 (W)	$\frac{62.9}{56.2}$	62.7 56.0	.28 .42	$\frac{18.5}{16.7}$	99 96	100.9 97.9	76.1 68.0	82.3 75.5
"	Shuman Golden Beauty Average of 5 open-pollinated varieties	57.1	56.9	.38	18.5	92.4	94.2	69.1	75.4
58	Wilson Yellow Dent	57.4	57.3	. 25	20.3	91	92.8	69.5	75.3
59	Canterbury Yellow Dent	56.8	56.6	. 28	18.8	92	93.8	68.7	75.0
60	Bunning White Dent	49.4	49.2	.34	18.8	93	94.8	59.7	68.5

^{*}Less than 5 bushels of seed sampled.

A difference of less than 5.5 bushels between total yields of any two entries in this table is not significant.

Table 22.—SOUTHERN ILLINOIS: Shobonier

		Acre	-yield	Damaged corn in	Mois- ture in	Erect	R	ating for	
Rank	Entry -	Total	Sound	shelled sample	grain at	plants	Erect plants	Sound yield	General
	1940	bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Pioneer Hi-Bred 313	30.3	29.4	2.98	14.2	89	109.6	117.1	115.2
2	Illinois Hybrid 863 (Canterbury)	30.7	29.7	3.18	16.1	79	97.3	118.3	113.1
3	Sager Hybrid 33 (W)	31.8	31.3	1.66	16.3	62	76.4	124.7	112.6
4	Illinois Hybrid 877 (Castle)	30.0	29.2	2.77	18.3	81	99.8	116.3	112.2
5	Funk Hybrid G-135	29.2	28.4	2.89	18.1	82	101.0	113.1	110.1
6	DeKalb Experimental Hybrid 92	29.6	28.3	4.25	18.7	80	98.5	112.8	109.2
7	DeKalb Experimental Hybrid 93	27.9	26.8	3.95	18.2	94	115.8	106.8	109.1
8	Iowealth Hybrid 28N	28.6	27.8	2.75	16.0	84	103.4	110.8	109.0
8	Illinois Hybrid 885A (Nickel Bros.)	28.4	27.5	3.34	14.9	87	107.1	109.6	109.0
10	Crow Hybrid 806	29.1	27.8	4.50	19.9	81	99.8	110.8	108.1
11	Illinois Hybrid 784 (Whisnand)	29.0	28.3	2.57	20.4	76	93.6	112.8	108.0
12	DeKalb Hybrid 899	29.2	27.7	5.14	18.5	80	98.5	110.4	107.4
12	Illinois Hybrid 206 (Burrus)	28.3	27.5	2.70	17.6	82	101.0	109.6	107.4
	Illinois Hybrid 838 (I.H.P.)	27.5	26.8	2.42	17.8	88	108.4	106.8	107.2
15	Illinois Hybrid 448 (Pocklington)	29.1	28.5	1.90	20.6	71	87.4	113.5	107.0
16	Illinois Hybrid 784 (Pfeifer)	29.1	27.7	4.70	20.1	78	96.1	110.4	106.8
	Bear Hybrid OK-95	29.1	28.2	3.22	20.2	78	96.1	109.5	106.2
18	Illinois Hybrid 200 (Pfeifer)	27.0	26.1	3.35	15.4	89	109.6	104.0	105.4
19	Bear Hybrid OK-80	28.4	26.9	5.15	16.3	80	98.5	107.2	105.0
20	Richbred Hybrid 1002	28.1	27.6	1.80	19.8	72	88.7	110.0	104.7
21	Funk Hybrid G-123	27.3	26.6	2.48	18.3	81	99.8	106.0	104.4
22	Hoosier Crost Hybrid 1005	26.4	25.8	2.28	17.5	88	108.4	102.8	104.2
	Funk Hybrid G-580 (W)	28.0	26.8	4.12	17.8	77	94.8	106.8	103.8
24 24	Bear Hybrid OK-45	26.8	26.1	2.58	16.1	81	99.8	104.0	103.0
	Pioneer Hi-Bred 300	$\frac{27.2}{27.3}$	$\frac{25.8}{26.4}$	5.02 3.16	15.4 20.4	84 77	103.4 94.8	102.8 105.2	103.0 102.6
27	*Illinois Hybrid 450 (Morgan)	$\frac{27.3}{26.7}$	25.0	6.30	24.0		108.4	99.6	101.8
27	Funk Hybrid G-83	26.2	25.0 25.0	4.58	14.2	88 88	108.4	99.6	101.8
29	Pioneer Hi-Bred 307	27.3	25.5	6.48	18.9	81	99.8	101.6	101.3
29	DeKalb Hybrid 888	26.2	25.4	3.14	24.0	82	101.0	101.0	101.2
31	Illinois Hybrid 247 (Canterbury)	25.6	24.2	5.35	14.6	91	112.1	96.4	100.3
32	DeKalb Hybrid 816	26.2	24.9	4.89	16.0	84	103.4	99.0	100.3
	Bear Hybrid OK-98.	26.7	25.2	5.67	18.9	79	97.3	100.4	99.6
34	Illinois Hybrid 200 (Castle)	24.5	24.1	1.56	15.8	89	109.6	96.0	99.4
35	Funk Hybrid G-90	25.9	24.1	7.09	19.2	86	105.9	96.0	98.5
35	DeKalb Experimental Hybrid 83	24.4	23.6	3.48	19.4	91	112.1	94.0	98.5
37	Macon Hybrid 666	24.7	23.1	6.54	15.8	89	109.6	92.0	97.9
38	Bear Hybrid OK-78	26.4	24.5	7.12	19.2	80	98.5	97.6	97.8
39	Illinois Hybrid 805 (Holmes)	23.9	23 4	2.26	20.9	90	110.8	93.2	97.6
40	DeKalb Hybrid 892	25.7	23.8	7.29	18.7	85	104.7	94.8	97.3
41	Pioneer Hi-Bred 332A	23.5	22.4	4.79	16.7	97	119.5	89.2	96.8
42	M-L Hybrid 830 (Moews-Lowe)	23.9	23.3	2.38	16.9	88	108.4	92.8	96.7
43	Pioneer Hi-Bred 332	23.5	22.5	4.13	14.8	95	117.0	89.6	96.4
44	*Illinois Hybrid 802 (I.H.P.)	24.9	24.0	3.71	20.2	78	96.1	95.6	95.7
45	U. S. Hybrid 13 (Canterbury)	26.0	24.1	7.35	15.8	76	93.6	96.0	95.4
45	*Illinois Hybrid 804 (I.H.P.)	26.1	23.9	8.43	16.8	78	96.1	95.2	95.4
47	DeKalb Hybrid 922 (W)	24.1	23.6	2 10	22.3	79	97.3	94.0	94.8
48	Illinois Hybrid 784 (Castle)	25.9	23.7	8.36	16.8	76	93.6	94.4	94.2
49	Iowealth Hybrid 29B	24.1	23.0	4.42	16.3	82	101.0	91.6	94.0
50	Iowealth Hybrid 29A	23.6	22.7	3.96	19.6	83	102.2	90.4	93.4
51	DeKalb Hybrid 894	24.7	22.2	10.23	19.2	87	107.1	88.4	93.1
52	McLurkin White Dent	24.5	22.5	8.26	25.7	70	86.2	89.6	88.8
53	Funk Hybrid G-80	22.3	21.2	4.99	21.0	82	101.0	84.5	88.6
54	Champion White Pearl	22.0	21.5	2.34	22.0	75	92.4	85.7	87.4
55	Mohawk	22.4	21.7	2.95	25.1	71	87.4	86.5	86.7
56	Funk Hybrid G-84	21.8	20.9	4.34	20.1	75	92.4	83.3	85.6
57	*Illinois Hybrid 800 (I.H.P.)	21.8	20.7	5.18	28.4	76	93.6	82.5	85.3
<u>,</u> •	Average of 5 open-pollinated varieties	22.4	21.2	5.42	23.5	69.6	85.7	84.5	84.8
58	DeKalb Hybrid 919 (W)	21.4	20.8	2.62	20.9	70	86.2	82.9	83.7
59 60	St. Charles White	$\frac{22.6}{20.7}$	20.7	8.43	$\frac{21.0}{23.8}$	62 70	76.4 86.2	82.5 78.1	81.0 80.1
UU			19.6	5.12			00.2	10.1	au. I
	Average of all entries	26.2	25.1	4.34	18.8	81.2			

^{*}Less than 5 bushels of seed sampled.

A difference of less than 6.3 bushels between total yields of any two entries in this table is not significant.

Table 23.—SOUTHERN ILLINOIS: Shobonier Summaries

		Acre	e-yield	Damaged corn in	Mois- ture in	Erect	R	ating for	
Rank	Entry	Total	Sound	shelled sample	grain at harvest	plants	Erect plants	Sound yield	General perform
	(A) Average yie	ld of e	ntries g	grown i	n 1939	and 19	40		
_		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Illinois Hybrid 877	45.1	44.3	2.00	15.1	89.0	101.4	110.5	108.2
2	Sager Hybrid 33 (W)	46.0 44.0	45.5 43.0	$\frac{1.18}{2.56}$	14.0 13.1	$80.0 \\ 93.0$	$91.1 \\ 105.9$	$\frac{113.5}{107.2}$	$107.9 \\ 106.9$
4	Pioneer Hi-Bred 313		42.0	1.64	12.8	99.5	113.3	104.7	106.8
5	Funk Hybrid G-123.	44.7	43.4	2.83	15.2	89.0	101.4	108.2	106.5
6	Illinois Hybrid 200	42.9	42.5	1.05	14.2	93.0	105.9	106.0	106.0
7	Iowealth Hybrid 29A	43.1	42.3	2.57	15.5	90.5	103.1	105.5	104.9
8	Illinois Hybrid 784		42.8	3.62	15.2	85.4	97.3	106.7	104.4
9	Bear Hybrid OK-78		42.1	4.15	15.4	89.5	101.9	105.0	104.2
10 11	Bear Hybrid OK-80	43.3 42.2	42.2 41.4	$\frac{3.11}{2.01}$	14.1 15.8	88.0 92.0	$100.2 \\ 104.8$	105.2 103.4	104.0 103.8
12	Illinois Hybrid 838 DeKalb Hybrid 922 (W)	42.5	42.0	1.56	17.6	87.5	99.7	103.4	103.8
13	DeKalb Hybrid 892		41.3	4.11	15.2	91.5	104.2	103.0	103.3
14	Funk Hybrid G-135	42.4	41.6	2.30	15.4	88.5	100.8	103.7	103.0
15	DeKalb Hybrid 899	42.9	41.8	3.06	16.2	87.0	99.1	104.2	102.9
15	DeKalb Hybrid 888	42.6	41.4	3.79	15.2	89.5	101.9	103.2	102.9
17	U. S. Hybrid 13 (Henley)		41.2	4.28	13.6	88.0	100.2	102.4	101.8
18	Funk Hybrid G-90		40.4	4.12	15.8	91.5	104.2	100.7	101.6
19 20	Iowealth Hybrid 28N DeKalb Hybrid 816	41.5 40.8	40.9 39.6	$\frac{1.74}{3.58}$	14.4 14.0	85.9 92.0	97.8 104.8	$\frac{102.0}{98.8}$	101.0 100.3
21	DeKalb Hybrid 894		39.0	5.56	16.2	92.0	104.8	97.3	99.2
22	Funk Hybrid G-84	39.2	38.5	2.58	15.9	87.0	99.1	96.0	96.8
	Funk Hybrid G-88	38.3	37.7	1.94	17.6	90.5	103.1	94.0	96.3
	Funk Hybrid G-80	38.1	37.4	2.72	16.8	90.5	103.1	93.3	95.8
25	DeKalb Hybrid 919 (W)	37.3	36.6	1.97	16.7	82.0	93.4	91.3	91.8
	St. Charles White	38.1	36.8	4.88	17.8	77.0	87.7	91.8	90.8
27	Mohawk	36.4	35.5	2.66	19.1	83.0	94.5	88.5	90.0
28	McLurkin White Dent	36.4	35.2	4.74 3.32	19.8 18.6	82.5 80.6	94.0 91.8	87.8 86.8	89.4 88.1
29	Average of 5 open-pollinated varieties Champion White Pearl	35.7 33.6	34.8 33.0	1.95	18.1	85.0	96.8	82.3	85.9
30	Blackhawk.	33.6	33.0	2.84	19.2	75.5	86.0	82.3	83.2
-									
	Average of all entries	41.1	40.1	2.90	15.8	87.8	••••	••••	
	(B) Average yiel	d of er		own in	1938, 1	939, 19	40		
1	Illinois Hybrid 784	47.1	46.2	2.46	16.5	79.2	103.0	111.3	109.2
2	Illinois Hybrid 877	45.4	44.8	1.56	14.1	79.3	103.1	108.0	106.8
4	DeKalb Hybrid 922 (W)	43.1 42.7	42.8 41.8	$\frac{1.16}{2.90}$	16.7 14.5	80.6 83.0	$104.8 \\ 107.9$	$103.1 \\ 100.7$	$103.5 \\ 102.5$
	St. Charles White.		42.2	3.66	17.1	71.0	92.3	101.7	99.4
	Pioneer Hi-Bred 313.	39.4	39.1	1.22	12.3	78.3	101.8	94.2	96.1
	Average of 5 open-pollinated varieties	39.9	39.2	2.38	17.8	72.6	94.4	94.5	94.5
7	Champion White Pearl	38.6	38.1	1.49	17.8	75.5	98.2	91.8	93.4
8	Blackhawk	37.7	37.2	1.90	18.9	68.0	88.4	89.6	89.3
	Average of all entries	42.2	41.5	2.04	16.0	76.9			
	(C) Average yield o	f entri	es grow	n in 19	37, 1938	3, 1939,	1940		
1 2	Funk Hybrid G-90	36.1	35.4	2.21 2.74	14.6	72.5	116.4	105.4	108.2
	St. Charles White	36.8 33.2	36.0 32.7	1.79	17.6 17.9	59.1 60.0	94.9 96.3	107.1 97.3	104.1 97.1
3	Champion White Pearl	32.2	31.9	1.12	18.3	63.9	102.6	94.9	96.8
4	Blackhawk	31.7	31.3	1.43	19.0	53.6	86.0	93.2	91.4
-									
	Average of all entries	34.2	33.6	1.88	17.4	62.3	• • • •		

Table 24.—SOUTHEASTERN ILLINOIS: Albion

		Acre	-yield	Damaged corn in	Mois- ture in	Erect	R	ating for	_
Rank	Entry -	Total	Sound	- shelled sample	grain at	plants	Erect	Sound yield	General perform
	1940	bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1 1P	ioneer Hi-Bred 333	79.7	78.6	1.39	13.6	56	187.3	105.5	126.0
	ioneer Hi-Bred 300.	84.9	84.0	1.03	13.9	40	133.9	112.8	118.1
	eKalb Experimental Hybrid 92	85.7	84.6	1.32	15.2	37	123.7	113.6	116.1
	unk Hybrid G-580 (W)	75.5	75.0	.70	14.7	48	160.5	100.7	115.6
	linois Hybrid 247 (Canterbury)	86.7	86.4	.40	14.6	34	113.7	116.0	115.4
	ioneer Hi-Bred 332	85.1	84.6	.55	15.6	35	117.1	113.6	114.5
	ioneer Hi-Bred 332A.	79.6	79.1	. 63	15.2	41	137.1	106.2	113.9
8 •11	linois Hybrid 806 (Henley)	70.0	69.0	1.44	15.9	53	177.3	92.6	113.8
9 F	unk Hybrid G-88	70.3	70.2	.18	17.7	51	170.6	94.2	113.3
10 *B	ear Hybrid OK-99	87.5	86.8	.80	15.3	26	87 0	116.5	109.1
11 D	eKalb Hybrid 888	77.7	77.1	.73	15.1	37	123.7	103.5	108.6
12 F	unk Hybrid G-528 (W)	85.1	84.8	.38	14.7	27	90.3	113.8	107.9
	eKalb Experimental Hybrid 83	82.2	80.4	2.20	15.0	32	107.0	107.9	107.7
	ear Hybrid OK-68	75.7	75.5	.25	13.6	37	123.7	101.3	106.9
	unk Hybrid G-135	72.5	71.6	1.31	16.7	39	130.4	96.1	104.7
16 D	eKalb Experimental Hybrid 93	83.9	82.2	2.02	14.9	26	87.0	110.3	104.5
17 Pi	ioneer Hi-Bred 313	81.3	80.9	.55	20.0	27	90.3	108.6	104.0
18 D	eKalb Hybrid 816	80.4	77.5	3.57	13.9	31	103.7	104.0	103.9
18 ¹H	enley & Whisnand Hybrid 883 (Henley)	73.9	73.3	. 83	15.1	36	120.4	98.4	103.9
20 II	linois Hybrid 200 (Whisnand)	81.9	80.7	1.52	14.1	27	90.3	108.3	103.8
	owealth Hybrid 29A	79.1	78.4	.84	14.4	29	97.0	105.2	103.2
22 F	unk Hybrid G-527 (W)	72.6	72.4	.26	15.9	36	120.4	97.2	103.0
23 III	linois Hybrid 448 (Dailey)	76.2	75.7	. 63	16.7	30	100.3	101.6	101.3
	lineis Hybrid 863 (Canterbury)	85.9	85.2	.76	14.6	18	60.2	114.4	100.8
	unk Hybrid G-83	73.7	73.4	.46	16.4	32	107.0	98.5	100.6
	linois Hybrid 805 (Holmes)	83.1	82.0	1.32	14.0	21	70.2	110.1	100.1
	oosier Crost Hybrid 1005	74.5	73.5	1.30	14.2	31	103.7	98.7	100.0
	ear Hybrid OK-98	83.8	83.1	. 83	15.2	19	63.5	111.5	99.5
	W. Doubet Hybrid D48	76.2	74.7	1.95	14.7	29	97.0	100.3	99.5
	eKalb Hybrid 899	71.6	71.3	.42	15.9	33	110.4	95.7	99.4
	ioneer Hi-Bred 307	80.9	78.3	3.22	13.8	24	80.3	105.1	98.9
	addell Utility White Dent	66.8	66.6	.36	15.4	38	127.1	89.4	98.8
	linois Hybrid 784 (Dallmier)	76.6	75.6	1.33	16.7	27	90.3	101.5	98.7
	eKalb Experimental Hybrid 87	82.0	80.8	1.44	16.0	20	66.9	108.5	98.1
	ear Hybrid OK-96.	82.6	81.2	1.73	16.1	19	63.5	109.0	97.6
	unk Hybrid G-84	70.5	70.2	.42	16.6	32	107.0	94.2	97.4
	owealth Hybrid TX 1	69.3	69.1	.27	18.6	33	110.4	92.8	97.2
	row Hybrid 806	75.1	73.8	1.74	15.2	27	90.3	99.1	96.9
39 C	row Hybrid 701 (W)	71.2	71.0	.31	16.4	30	100.3	95.3	96.6
39 D	eKalb Hybrid 922 (W)	63.4	62.7	1.15	17.1	40	133.8	84.2	96.6
	linois Hybrid 877 (Dallmier)	78.6	78.2	.57	14.9	20	66.9	105.0	95.5
	wealth Hybrid 28N	79.3	79.0	.32	14.9	13	43.5	106.0	90.4
	eKalb Hybrid 884	77.5	77.3	.27	15.4	14	46.8	103.8	89.6
	linois Hybrid 450 (Castle)	72.9	71.4	2.04	17.3	21	70.2	95.8	89.4
	eKalb Experimental Hybrid 88	77.2	76.9	.34	15.2	14	46.8	103.2	89.1
	linois Hybrid 885A (Castle)	77.8	76.7	1.47	14.2	ii	36.8	103.0	86.4
	eKalb Hybrid 919 (W)	62.2	60.9	2.06	16.0	30	100.3	81.7	86.4
	eKalb Hybrid 894	68.3	66.8	2.20	16.5	22	73.6	89.7	85.7
	verage of 6 open-pollinated varieties	58.3	58.0	.37	16.2	28	93.7	77.9	81.9
	hampion White Pearl	49.8	49.3	.98	16.8	38	127.1	66.2	81.4
	CLurkin White Dent	50.8	50.7	. 22	17.5	36	120.4	68.1	81.2
	ilson Yellow Dent.	65.0	64.9	.20	15.7	18	60.2	87.1	80.4
	t. Charles White	59.2	58.9	.56	15.6	25	83.6	79.1	80.2
	addell Utility Yellow Dent	58.2	57.8	.64	16.2	13	43.5	77.6	69.1
Ju 11							70.0	11.0	95.1
	Average of all entries	75 3	74.5	1.03	15.6	29.9			

^{*}Less than 5 bushels of seed sampled. Average of 9 plots instead of 10.

A difference of less than 5.5 bushels between total yields of any two entries in this table is not significant.

Table 25.—SOUTHEASTERN ILLINOIS: Albion Summaries

		Acre	-yield	Damaged corn in	Mois- ture in	Erect	R	lating for	
Rank	Entry -	Total	Sound		grain at harvest	plants	Erect plants	Sound yield	General perform
	(A) Average yiel	d of	entries	grown i	n 1939	and 19	40		
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Funk Hybrid G-528 (W)	78.8	77.2	2.17	13.1	63.5	100.8	112.4	109.5
	Bear Hybrid OK-68	76.7	74.6	2.72	11.8	68.0	107.9	108.6	108.4
	Pioneer Hi-Bred 313	77.6	75.6	2.60	15.4	63.0	100.0	110.0	107.5
	E. W. Doubet Hybrid D48	76.6	75.1	2.04	12.9	64.0	101.6	109.3	107.4
5	DeKalb Hybrid 888	75.2	73.2	2.84	12.8	68.0	107.9	106.5	106.8
6	Funk Hybrid G-83	75.1	73.2	2.43	13.9	66.0	104.8	106.5	106.1
7	Iowealth Hybrid 29A	75.4	73.3	2.86	13.1	64.5	102.4	106.7	105.6
8	Funk Hybrid G-84	72.2	71.1	1.48	13.7	66.0	104.8	103.5	103.8
9	Crow Hybrid 806	73.9	72.4	1.94	13.4	62.0	98.4	105.4	103.6
10	Iowealth Hybrid 28N	74.9	74.0	1.24	12.8	56.5	89.7	107.7	103.2
11	DeKalb Hybrid 899	71.8	69.8	2.87	13.6	66.5	105.6	101.6	102.6
12	Funk Hybrid G-135	72.2	69.8	3.38	14.2	64.5	102.4	101.6	101.8
13	DeKalb Hybrid 816	74.0	69.0	7.14	12.4	65.5	104.0	100.4	101.3
14	Illinois Hybrid 885A	76.5	72.6	5.30	12.4	55.0	87.3	105.7	101.1
15	Funk Hybrid G-527 (W)	69.8	69.0	1.22	13.6	64.5	102.4	100.4	100.9
	Waddell Utility White Dent	66.8	66.4	. 69	13.4	66.0	104.8	96.7	98.7
17	Crow Hybrid 701 (W)	67.8	65.4	3.75	13.8	64.5	102.4	95.2	97.0
18	DeKalb Hybrid 894	68.4	67.0	2.10	13.6	60.0	95.2	97.5	96.9
19	DeKalb Hybrid 922 (W)	63.8	62.2	2.46	14.2	69.0	109.5	90.5	95.2
20	DeKalb Hybrid 919 (W)	64.0	62.2	2.76	13.7	64.5	102.4	90.5	93.5
	Wilson Yellow Dent	63.2	62.8	.70	13.2	54.5	86.5	91.4	90.2
	St. Charles White	61.6	61.0	.90	13.6	59.5	94.4	88.8	90.2
	Average of 5 open-pollinated varieties	60.1	59.5	.81	13.8	60.4	95.9	86.6	88.9
23	Waddell Utility Yellow Dent	59.2	58.6	. 99	13.4	52.5	83.3	85.3	84.8
24	McLurkin White Dent	54.6	53.2	.82	15.2	64.5	102.4	77.4	83 . 6
	Average of all entries	70.4	68.7	2.39	13.5	63.0			
	(B) Average yield	of er	itries g	rown in	1938,	1939, 1	940		
	Funk Hybrid G-528 (W)	85.1	83.8	1.52	13.1	69.3	99.0	113.9	110.2
	Pioneer Hi-Bred 313	80.4	78.7	2.24	14.7	73.3	104.7	106.9	106.4
	Funk Hybrid G-527 (W)	76.5	75.6	1.21	13.7	72.7	103.9	102.7	103.0
4	DeKalb Hybrid 922 (W)	73.3	72.3	1.65	14.8	76.3	109.0	98.2	100.9
	Crow Hybrid 701 (W)	73.7	72.0	2.58	14.0	73.0	104.3	97.8	99.4
6	St. Charles White	69.3	68.9	. 67	14.0	69.3	99.0	93.6	95.0
	Wilson Yellow Dent	70.3	69.7	. 95	13.2	64.3	91.9	94.7	94.0
્ર•.	Average of 5 open-pollinated varieties	67.0	66.5	.72	14.1	67.9	97.6	90.4	92.1
8	Waddell Utility White Dent	67.9	67.5	. 61	14.0	61.7	88.1	91.7	90.8

Table 26.—SOUTHEASTERN ILLINOIS: Albion, Resistance to Lodging Caused by Feeding of Corn Rootworms'

Rank	k Entry	Plants leaning 30 degrees or more ²	Plants leaning more than 45 degrees	Resistance rating com- pared with average ³ (hybrids only)	Rank	Entry.	Plants leaning 30 degrees or more ²	Plants leaning more than 45	Resistance rating com- pared with average ³ (hybrids only)
1008460000000000000000000000000000000000	1940 Dekalb Hybrid 899. Dillinois Hybrid 899. Dekalb Experimental Hybrid 83 Henley and Whisnand Hybrid 83 Henley and Whisnand Hybrid 883 Henley Hybrid G-890 (W) Hoosier Crest Hybrid G-890 Dekalb Experimental Hybrid 93 Dekalb Experimental Hybrid 93 Dekalb Experimental Hybrid 87 Crow Hybrid 247 (Canterbury) Billinois Hybrid 816 Dekalb Experimental Hybrid 82 Dekalb Experimental Hybrid 92 Dekalb Experimental Hybrid 92 Dekalb Experimental Hybrid 92 Dekalb Experimental Hybrid 91 Dekalb Experimental Hybrid 98 Dekalb Hybrid 919 (W) Billinois Hybrid 384 (Dallinier) Illinois Hybrid 384 (Dallinier) Funk Hybrid 678 (Dallinier) Funk Hybrid 678 (Catte) Bear Hybrid 600 (Whisnand) Funk Hybrid 678 (Catte) Experimental Hybrid 88 Bear Hybrid 686 Crow Hybrid 986	24 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	\$ 01 01 01 - 01 01 4 4 00 4 4 00 00 00 0 1 4 01 00 00 00 00 00 00 00 00 00 00 00 00		2008 833 33 33 33 33 33 33 33 33 33 33 33 3	I 1940 Illinois Hybrid 863 (Canterbury) Funk Hybrid G-84 E. W. Doubert Hybrid G-84 Funk Hybrid G-87 Illinois Hybrid 888 (Castle) Perkalb Hybrid 888 (Castle) Perkalb Hybrid 883 (Castle) Funk Hybrid G-83 Floneer Hi-Bred 332 Floneer Hi-Bred 332 Floneer Hi-Bred 333 Floneer Hi-Bred 307 Flowealth Hybrid 29A Bear Hybrid OK-96 Average of hybrid entries McLurkin White Dent Waddell Utility Yellow Dent Waddell Utility Yellow Dent	######################################	29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
27	Iowealth Hybrid 28N Iowealth Hybrid Tx1	. 39.7	8.4 0.0	101	5 2	Wilson Yellow Dent Champion White Pearl	31.3	7.2	::

1) habratica duodecimpundata (F.) and Diabratica langicarnia (Say). A difference of less than 8.2 in this column is not significant. High rating indicates better standing ability.

Table 27.—SOUTHWESTERN ILLINOIS: Modoc

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		Aoro	-vield	Damaged corn in	Mois- ture in	Erect	R	ating for	_
Rank	Entry -	Total	Sound	shelled sample	grain at harvest		Erect plants	Sound yield	Genera
1940		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1 Pioneer Hi-Bre	ed 313	76.1	75.8	.36	12.5	94	107.6	110.6	109.8
2 Funk Hybrid (3-46	75.6	75.5	. 14	14.2	89	101.8	110.2	108.1
	K-39	75.0	74.7	.35	14.4	90	103.0	109.0	107.5
5 *1Bear Hybrid C	ed 332A	$73.5 \\ 76.1$	$\frac{72.8}{75.7}$.93	14.5 14.6	96 84	109.8 96.1	106.3 110.5	107.2 106.9
5 DeKalb Exper	imental Hybrid 92	73.5	73.1	.52	14.0	94	107.6	106.7	106.9
7 Funk Hybrid (J-83	74.8	74.3	. 63	15.5	87	99.5	108.4	106.2
8 *1Bear Hybrid C	K-98	75.4	74.6	1.04	15.1	84	96.1	108.9	105.7
8 U.S. Hybrid 1	3 (Pocklington)	73.1	72.3	1.11	13.5	93	106.4	105.5	105.7
	d 899	74.4	74.0	.49	15.9	86	98.4	108.0	105.6
12 Illinois Hybrid	A-1-40 863 (Canterbury)	75.1 75.4	74.7 74.8	.50 .84	$\frac{14.2}{14.2}$	83 82	95.0 93.8	$109.0 \\ 109.2$	105.5 105.4
13 DeKalb Hybri	d 888	72.8	72.6	.34	14.6	90	103.0	106.0	105.4
13 *1Illinois Hybrid	838 (Pocklington)	72.7	72.3	.50	14.4	91	104.1	105.5	105.2
	imental Hybrid 93	72.4	71.4	1.35	14.0	94	107.6	104.2	105.1
16 *Illinois Hybrid	800 (I.H.P.)	72.2	72.1	. 10	15.5	91	104.1	105.2	104.9
17 Illinois Hybrid	450 (Whisnand)	76.9	76.8	. 10	15.8	71	81.2	112.1	104.4
18 Illinois Hybrid	206 (Burrus)	71.4	71.2	. 26	14.0	92	105.3	103.9	104.2
	804 (I.H.P.) d 816	$\frac{72.2}{72.1}$	$\frac{72.1}{70.3}$	$\frac{.16}{2.46}$	$15.7 \\ 14.2$	88 94	$100.7 \\ 107.6$	$105.2 \\ 102.6$	104.1 103.8
	448 (Pfeifer)	72.0	71.8	.33	16.8	86	98.4	104.8	103.2
	247 (Canterbury)	71.5	71.0	.71	15.4	89	101.8	103.6	103.2
23 Iowealth Hybr	id 29A	70.7	70.3	. 62	13.7	91	104.1	102.6	103 0
23 Bear Hybrid C	K-78	70.6	70.3	.37	13.4	91	104.1	102.6	103.0
25 *Pioneer Hi-Bre	ed 300	70.6	69.9	. 93	14.5	92	105.3	102.0	102.8
	Hybrid 1005	70.3	70.0	.40	14.6	91	104.1	102.2	102.7
	784 (Castle) 885A (Pfeifer)	$73.7 \\ 72.5$	$\frac{73.6}{72.2}$. 13	16.3 14.7	75 80	85.8 91.5	107.4 105.4	102.0 101.9
	55	70.6	69.9	.94	15.5	88	100.7	102.0	101.7
30 Pioneer Hi-Bre	ed 332	70.0	69.6	.53	14.9	89	101.8	101.6	101.6
31 ¹ Funk Hybrid (G-145	69.8	68.9	1.24	16.1	91	104.1	100.6	101.5
32 Funk Hybrid (G-527 (W)	69.7	69.6	.18	16.8	86	98.4	101.6	100.8
	id TX I	69.7	69.3	. 62	18.4	87	99.5	101.2	100.8
34 ¹ National Hybras Utility	rid 134	70.5 68.8	70.3 68.4	. 24	15.9 15.1	83 90	95.0 103.0	102.6 99.8	100.7 100.6
36 Illinois Hybrid	448 (Whisnand)	70.9	70.5	.62	15.1	80	91.5	102.9	100.0
36 Crow Hybrid	701 (W)	69.8	69.0	1.17	15.5	86	98.4	100.7	100.1
38 ¹ Funk Hybrid (G-135	69.8	69.3	.73	16.3	84	96.1	101.2	99.9
39 *Iowealth Hybr	id TX 2	68.3	68.1	. 20	16.8	87	99.5	99.4	99.4
40 Pioneer Hi-Bro	ed 333	67.4	66.8	.94	13.0	91	104.1	97.5	99.2
41 Illinois Hybrid 42 *Illinois Hybrid	449 (Canterbury) 802 (I.H.P.)	70.9	70.3 66.5	.88 .70	15.4 15.6	77 90	88.1 103.0	102.6 97.1	99.0 98.6
43 Illinois Hybrid	877 (Castle)	67.0 70.2	69.8	.49	14.7	77	88.1	101.9	98.4
	306	69.0	67.4	2.38	16.0	85	97.3	98.4	98.1
	G-88	67.1	66.8	.42	17.4	86	98.4	97.5	97.7
45 ¹Illinois Hybrid	G-88. 200 (Castle)	65.5	64.7	1.14	14.2	94	107.6	94.4	97.7
47 Morgan Hybri	d M-180	67.0	65.7	1.92	14.0	89	101.8	95.9	97.4
48 Hoosier Crost	Hybrid 840	66.4	66.0	.57	13.0	87	$99.5 \\ 105.3$	96.3	97.1
49 *Funk Hybrid (50 'Iowealth Hybrid	G-580 (W)	64.5 67.3	64.1 66.3	.66 1.44	$\frac{15.8}{16.7}$	92 83	95.0	93.6 96.8	96.5 96.4
	G-84	64.1	63.4	1.09	17.0	90	103.0	92.5	95.1
52 Learning		63.5	63.0	.80	19.4	85	97.3	92.0	93.3
53 Pioneer Hi-Bro		62.7	61.6	1.83	13.3	90	103.0	89.9	93.2
54 DeKalb Exper	imental Hybrid 89	59.3	58.5	1.42	13.8	94	107.6	85.4	91.0
	d 922 (W)	58.1	57.7	. 68	17.1	91	104.1	84.2	89.2
56 Mohawk	non nellineted mediation	54.8	54.5	. 60	19.0	89	101.8	79.6	85.2
	pen-pollinated varieties d 919 (W)	55.4 57.4	55.1 56.6	. 62 1.40	18.5 15.6	85.6	98.0 90.4	80.4 82.6	84.8 84.6
	ite Dent	55.5	54.9	.98	18.1	83	95.0	80.1	83.8
	hite	51.1	51.0	.22	16.8	91	104.1	74.4	81.8
60 Champion Wh	ite Pearl	52.2	51.9	.48	19.4	80	91.5	75.8	79.7
	f all entries	69.0	68.5	.74	15.4	87.4			

^{*}Less than 5 bushels of seed sampled. ¹Average of 7 plots instead of 8.

A difference of less than 8.0 bushels between total yields of any two entries in this table is not significant.

Table 28.—SOUTHWESTERN ILLINOIS: Modoc, Two-Year Summary

	Entry	Acre-yield		Damaged corn in	Mois- ture in	Erect	R	tating for—	
Rank		Total	Sound	- shelled sample	grain at harvest	plants	Erect plants	Sound yield	General perform
	Average yield	of ent	ries gro	wn in 1	939 an	1 1940			
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	DeKalb Hybrid 899	78.2	77.0	1.60	15.4	91.9	100.7	112.2	109.3
2	Illinois Hybrid 450 (Whisnand)	77.6	77.3	. 29	15.6	85.0	93.1	112.7	107.8
2	Funk Hybrid G-83	76.6	75.2	1.64	15.4	93.5	102.4	109.6	107.8
4	Pioneer Hi-Bred 313	75.2	74.6	.80	13.6	94.5	103.5	108.7	107.4
5	Illinois Hybrid 448	74.7	74.2	. 61	16.6	91.0	99.7	108.2	106.1
6	Funk Hybrid G-46	75.5	73.8	2.37	14.0	92.2	101.0	107.6	106.0
7	DeKalb Hybrid 816	72.8	71.0	2.53	14.1	97.0	106.2	103.5	104.2
8	Illinois Hybrid 863	73.1	72.0	1.52	15.2	89.4	97.9	105.0	103.2
8	DeKalb Hybrid 888	71.4	70.8	.72	14.5	94.4	103.4	103.2	103.2
10	Funk Hybrid G-527 (W)	72.0	71.7	.36	16.5	90.0	98.6	104.5	103.0
11	Illinois Hybrid 784	72.4	72.0	. 64	16.6	86.2	94.4	105.0	102.4
11	Illinois Hybrid 200	71.1	69.6	1.94	13.7	95.8	104.9	101.5	102.4
13	Funk Hybrid G-84	71.1	69.6	2.09	16.0	93.9	102.8	101.5	101.8
14	Illinois Hybrid 885A	72.0	71.1	1.24	14.3	87.2	95.5	103.6	101.6
15	Funk Hybrid G-135	71.0	69.6	2.04	16.2	91.8	100.5	101.5	101.2
16	Bear Hybrid OK-78	69.6	68.5	1.60	13.8	95.0	104.1	99.9	101.0
17	Iowealth Hybrid 29A	70.1	68.9	1.74	14.3	92.7	101.5	100.4	100.7
18	DeKalb Hybrid 919 (W)	64.3	63.6	1.15	15.4	87.6	95.9	92.7	93.5
19	Learning	62.6	61.0	2.68	20.0	86.4	94.6	88.9	90.3
20	Learning DeKalb Hybrid 922 (W)	59.3	58.8	. 82	17.5	91.6	100.3	85.7	89.4
21	St. Charles White	57.6	56.8	1.44	16.5	92.7	101.5	82.8	87.5
22	Mohawk	56.2	55.6	1.06	18.0	91.4	100.1	81.0	85.8
•	Average of 5 open-pollinated varieties	57.1	56.0	1.93	17.8	88.6	97.0	81.6	85.4
23	McLurkin White Dent	55.8	54.4	2.47	18.0	88.4	96.8	79.3	83.7
	Average of all entries	69.6	68.6	1.45	15.7	91.3			

SOIL ADAPTATION TEST

For the sixth consecutive year studies were made at Sibley and Urbana to determine the adaptability and performance of hybrid corn on soils differing in their productivity. As in the previous years, two tests were conducted at each location, one on a highly productive soil and the other on a soil of medium or low productivity.

Season. Weather conditions in 1940 were not favorable for high yields at either of these locations, altho at Urbana the crop did not suffer as much from adverse weather as it did at Sibley. On the less productive area at Urbana yields were almost as high as in previous more favorable years. Lack of rainfall during most of the growing period was the main cause of low yields.

Soils. The fertile area at Sibley consists of a highly productive Proctor silt loam, and the less fertile area consists of a badly eroded plot of Elliott silt loam. These two soil types and the plots selected within each were good representatives of high and low states of soil productivity. A good crop of sweet clover, which furnished an ample supply of organic matter and of nitrogen, had been plowed down on the Proctor silt loam (high productivity) for the 1940 corn crop. The Elliott silt loam had been limed once and had grown a thin stand of sweet clover; but after a crop of corn had been grown in 1939, the fertility of the field was low. At Urbana the two areas, which are on the Agronomy south farm, differ in productivity as a result of the long-continued use of different cropping systems. In the Southwest rotation a high state of productivity has been maintained by systematically rotating corn, oats, clover hay, and wheat with a red-clover catch crop. The South-Central area has been depleted of fertility by a rotation of corn, corn, corn, and soybeans. Both plots at Urbana have received manure and phosphate. The Southwest rotation has had slightly more limestone than the South-Central. The soil type of the two fields is mainly Muscatine silt loam.

1940 results. In general, the moisture conditions in 1940 were more favorable to corn on soils of medium productivity than to corn on highly productive soils. On the highly fertile soils early growth was stimulated by a combination of a good supply of moisture and a high level of fertility; as a result, the shooting, or ear-making, period of the plant came when the soil was most dry. Where this occurred, ears failed to form and the stalks were barren. Varieties and strains of corn that are normally subject to barrenness were more severely damaged than those not so subject to barrenness. On the high-fertility area at Urbana, wherever the open-pollinated variety had three stalks to a hill, 39 percent of the stalks were barren, and where there were four stalks to a hill, 67 percent were barren. The five best hybrids showed much less barrenness—where there were three stalks to a hill

Table 29.—SOIL ADAPTATION TEST: Central Illinois, Sibley

		Total	Maistura	Ennet		Rating for-	
Rank	Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Erect plants	General perform.	Tota yield
	PROCTOR SILT LOAM	Prod	luctivity h	igh (F	arm 41)		
	·	bu.	perct.	perct.	perct.		perct
1	Crow Hybrid 360A	61.9	17.3	92	101.1	117.4	122.8
2	Illinois Hybrid 805	54.4	18.5	88	96.7	105.1	107.9
3	Illinois Hybrid 374	54.3	19.9	86	94.5	104.4	107.7
4	Pioneer Hybrid 307	54.0	18.1	96	105.5	106.7	107.1
5	Illinois Hybrid 247	53.6	19.2	81	89.0	102.0	106.3
6	Illinois Hybrid 972	53.4	18.1	90	98.9	104.2	106.0
7	Illinois Hybrid 960	52.2	19.0	87	95.6	101.6	103.
8	U. S. Hybrid 5	51.8	19.2	96	105.5	103.5	102.8
9	Mixture—U. S. 5 and Illinois 805	51.3	19.9	90	98.9	101.1	101.8
10 11	Sibley Farms Hybrid 73	50.8	18.3 19.8	85 98	93.4 107.7	99.0 102.4	100.8
12	Mixture—U. S. 5 and U. S. 13	50.7 50.5	17.9	98 95	107.7	101.2	100.
13	Illinois Hybrid 201	50.3	17.6	97	106.6	101.5	99.
14	U. S. Hybrid 13	48.4	20.8	96	105.5	98.4	96.
14	U. S. Hybrid 44	48.4	18.5	83	91.2	94.8	96.
16	Illinois Hybrid 200.	47.8	22.0	98	107.7	98.0	94.8
17	Sibley Farms Hybrid 753B.	46.7	19.2	94	103.3	95.3	92.
18	Sibley Farms Hybrid 588	45.7	22.0	88	96.7	92.2	90.
19	Illinois Hybrid 21	44.9	20.8	96	105.5	93.2	89.
	Station Yellow Dent	37.1	23.6	88	96.7	79.4	73.
	Average	50.4	19.5	91			
	ELLIOTT SILT LOAM	Pro	ductivity l	ow (Fa	rm 92)		
1	Sibley Farms Hybrid 588	28.0	20.5				121.2
2	Crow Hybrid 360A	27.2	18.7				117.7
3	Illinois Hybrid 374	26.3	19.6				113.
4	Pioneer Hybrid 307	26.0	19.1				112.
5	Illinois Hybrid 972	25.8	18.5				111.
6	Illinois Hybrid 247	25.5	19.4	⊢	⊢	H	110.
7	Illinois Hybrid 201	24.9	18.3	ERECT	ERECT	ERECT	107.
7	Sibley Farms Hybrid 73	24.9	20.5	22	22	≅	107.
9	U. S. Hybrid 44.	24.6	18.5				106.
10 11	Mixture—U. S. 5 and Illinois 805	24.2	21.1	23	22	85	104. 101.
12	U. S. Hybrid 13	$\frac{23.4}{22.8}$	$\frac{19.8}{20.2}$	E	z	Z	98.
13	Illinois Hybrid 21	22.7	19.6	Ϋ́	٧	Y.	98.
14	Illinois Hybrid 960	22.5	20.0	ALL PLANTS	PLANTS	ALL PLANTS	97.
15	Mixture—U. S. 5, U. S. 13, and Illinois 200	22.3	22.4	ı.j		L.	96.
16	Sibley Farms Hybrid 753B.	20.8	21.1	7	ALL	⇒	90.
17	Illinois Hybrid 200	19.1	20.8	-	•		82.
18	U. S. Hybrid 5	18.6	18.1				80.
		18.2	20.2				78.
19	Mixture—U. S. 5 and U. S. 13	10.2	20.2				
19	Mixture—U. S. 5 and U. S. 13 Station Yellow Dent	14.8	24.9				64.

only 4 percent of the stalks were without ears, and where there were four stalks only 18 percent had no ears.

These data show that in dry seasons on highly fertile soils the yield of thickly planted good hybrids will not be reduced because of stalk barrenness nearly as much as will the yield of thickly planted open-pollinated varieties or of poor hybrids subject to barrenness.

Hybrids on the soil-adaptation fields performed about as they did in the dry season of 1936. Strains such as Illinois 960, Illinois 374, Sibley Farms 588, and Crow 360A, which are generally considered to be widely adapted and particularly suited to poor land, were among the top performers. This was to be expected, for in dry seasons lack

of moisture prevents plant foods from becoming easily available and brings good soil down to the level of poor soil.

Illinois 201 and 247 are newcomers that made a very good showing this year. However, 247 is very susceptible to stalk breaking, and like many of the other widely adapted hybrids it is not so desirable for planting on highly fertile soils, where stalk breaking is often much more severe than on soils of low or medium fertility.

Hybrids stood the drouth much better than the open-pollinated variety. This was particularly true on the high-fertility area at Ur-

Table 30.—SOIL ADAPTATION TEST: Central Illinois, Urbana

	Entry	Total	Moisture	Erect	Rating for-		
Rank		acre yield	in grain at harvest	plants	Erect plants	General perform.	Tota yield
	MUSCATINE SILT LOAM:	Product	ivity high	(South	west rot	ation)	
		bu.	perct.	perct.	perct.		perct
1	Illinois Hybrid 247	. 88.3	19.2	90	97.9	110.3	114.4
	Illinois Hybrid 201		17.9	96	104.5	108.7	110.1
3	Illinois Hybrid 960	. 84.4	19.0	85	92.5	105.1	109.3
4	Illinois Hybrid 374		19.9	85	92.5	104.7	108.8
5	U. S. Hybrid 5	. 83.0	19.2	100	108.8	107.8	107.5
6	Illinois Hybrid 21	81.1	20.8	100	108.8	106.0	105.1
7	Illinois Hybrid 805	78.7	18.5	84	91.4	99.3	101.9
8	U. S. Hybrid 13	. 77.6	20.8	93	101.2	100.7	100.
	Crow Hybrid 360A	. 76.8	17.3	86	93.6	98.0	99.
10	Illinois Hybrid 200.	. 74.8	22.0	100	108.8	99.9	96.9
11	Sibley Farms Hybrid 753B	72.2	19.2	98	106.6	96.8	93.
12	Station Yellow Dent	. 41.0	23.6	86	93.6	63.2	53.1
_	Average		19.8	91.9			
	MUSCATINE SILT LOAM: Pr	oductivit	y medium	(South	central	rotation)	
1	Illinois Hybrid 960	. 63.8	16.6	96	100.7	110.6	113.9
2	Illinois Hybrid 201	. 61.8	18.0	98	102.8	108.5	110.4
3	Illinois Hybrid 247	. 61.6	18.9	92	96.5	106.6	110.0
4	U. S. Hybrid 13	. 61.3	17.1	98	102.8	107.8	109.5
5	Illinois Hybrid 374	. 59.7	16.4	94	98.6	104.6	106.
6	Illinois Hybrid 21	57.3	16.9	100	104.9	103.0	102.3
7	Crow Hybrid 360A	. 54.3	16.3	95	99.7	97.7	97.0
7	Illinois Hybrid 200.	. 54.3	17.4	100	104.9	99.0	97.0
	Illinois Hybrid 805	. 53.6	17.6	91	95.5	95.7	95.
9	Sibley Farms Hybrid 753B	. 52.0	18.9	91	95.5	93.6	92.9
9		P 4 A	16.8	100	104.9	95.1	91.8
10 11	U. S. Hybrid 5	51.4					
10 11	U. S. Hybrid 5. Station Yellow Dent.	41.5	18.7	89	93.4	78.9	74.

bana, where the average of all entries was 36.2 bushels above the yield of Station Yellow Dent and the average yield of the five best hybrids was 44 bushels above the same variety.

Five-year records of two hybrids. Representative of a large group of hybrids that are particularly adapted to highly fertile soils is U. S. 5 (WF9 x 38-11) (R4 x 317), for which a five-year average is given in Table 31, page 219. On the high-fertility area this hybrid has produced 18 bushels (or 20 percent) more than the open-pollinated variety. On the low-fertility area it yielded only 7 bushels, or 15 percent, more. In physical characteristics (which are very important in

Table 31.—SOIL	ADAPTATION	TESTS:	Five-year	Summary	of	Yields		
at Sibley and Urbana								

	Soil of high	productivity	Soil of los	productivity
Entry	Acre yield	Increase over open- pollinated	Acre yield	Increase over open- pollinated
	bu.	bu.	bu.	bu.
U. S. Hybrid 5 ¹ (WF9 x 38-11) (R4 x L317)	. 87	18	46	7
Illinois Hybrid 960 (R4 x Hy) (701 x L317)	. 86	17	53	14
Station Yellow Dent	. 69		39	

¹U. S. Hybrid 5 was tested as Illinois 139 in 1936 and in 1937 as a coded commercial hybrid.

determining the adaptability of a hybrid) this hybrid has demonstrated that it has excellent stalk characteristics when grown on fertile soil and very undesirable ear and kernel characteristics when grown on poor soil.

Likewise Illinois 960 (R4 x Hy) (701 x 317) illustrates the performance of the more widely adapted hybrids, which normally do relatively better on medium to poor soils than on good soils. Since this hybrid yields well on good soils as well as on the medium to poor soils it might be concluded that it would, in general, be the more desirable of these two hybrids, but it has very decided stalk weakness that is greatly emphasized on fertile soil even tho it shows very desirable ear and kernel characteristics when grown on poor soil.

SUMMARY

- 1. The average yield of corn on the twelve fields in the Illinois corn-performance tests in 1940 was 72.1 bushels an acre, which is 28.1 bushels more than the average for the state. During the seven years (1934-1940) over which these tests have been conducted, the average yields on the test fields have exceeded the average yields of the state by 111, 94, 79, 64, 47, 53, and 64 percent respectively.
- 2. The range in average yield of sound corn on the twelve testing fields was from 25.1 bushels at Shobonier to 92.4 bushels at Kings.
- 3. The five best hybrids on all twelve fields yielded an average of 27.4 bushels of sound corn an acre more than the five open-pollinated varieties. They also exceeded the open-pollinated varieties in lodging resistance, having 13.4 more erect plants per hundred.
- 4. On the Kings, Greenfield, Paxton, and Cambridge fields the five best hybrids exceeded the five open-pollinated varieties in yield of sound corn by 50.4, 42.6, 40.8, and 37.9 bushels an acre respectively.
- **5.** On every test field the five best hybrids exceeded the five open-pollinated varieties in yield of sound corn and in percentage of erect plants.

¹See illustrations in Bulletins 450 and 463 of this Station.

- **6.** Except on the Littleton field, the five poorest hybrids in the tests averaged more bushels of sound corn per acre than the open-pollinated varieties.
- 7. On six of the twelve testing fields all the hybrids exceeded the average of the open-pollinated varieties in performance rating. On the other six fields a total of only 10 hybrids had a lower performance rating than the average of the open-pollinated varieties.
- 8. Data obtained from the Round Lake and Kings fields indicate that after an early killing frost most hybrids dry out faster than the open-pollinated varieties.
- 9. Compared with the open-pollinated varieties, the hybrid entries have, on the average, improved thru the years of these tests in yield of sound corn but not in lodging resistance. The average superiority of the hybrids over the open-pollinated varieties was 12.8 bushels an acre for the entries included in the four-year tests, 14.4 bushels for the entries in the three-year tests, and 16.1 bushels in the two-year tests; whereas in erect plants per hundred the average superiority of the hybrids was 14.6, 12.9, and 13.6 for the entries in the four-, three-, and two-year tests.
- 10. Several insects caused damage to the Illinois corn crop in 1940, but the corn rootworm and the southern corn rootworm were the only ones to cause visible damage on the testing fields and this occurred only on the Cambridge and Albion fields.
- 11. No advance toward better ear-rot resistance appears to have been made in most of the hybrids that are now in general commercial production. Diplodia ear rot caused much damage on the Kings and Round Lake fields. Fusarium ear rot was prevalent thruout Illinois. Smut caused more damage than usual.
- 12. In the soil-adaptation tests at Sibley and Urbana hybrids grown on a good soil and under a good soil management responded better to such conditions than did the open-pollinated variety. At Urbana the five best hybrids yielded 23.3 bushels an acre more on the high-fertility area than on the poorer fields. The open-pollinated variety, however, yielded half a bushel less on the better field than on the poorer field.

Hybrids normally ranking high on poor soils ranked high in all the soil-adaptation tests this year, and hybrids normally high on good soils ranked low in all tests.

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Seeber 50 Seeber 55 Sibley Farms S73 Sibley Farms S75 Sibley Farms 753A Sibley Farms 753B Silver Cross W12 (Michael Leonard) Stewart S22 Stiegelmeier 38 Stiegelmeier 44 Stiegelmeier 100 Stiegelmeier 380	8, 10
Stiegelmeier 38	14, 15A, 16, 17, 18A
Stiegelmeier 44	
Stiegelmeier 100	19 12 4
Stiegelmeier 380 Stiegelmeier 702 8 Stiegelmeier 901	94 10 11 12 13A
Stiegelmeier 901	14. 15A, 16, 17, 18A
Stiegelmeier 904	16, 17, 18A
U. S. 5 (Hulting)	
U. S. 5 (Mountiov)	14, 15A-B
U. S. 5 (Oakes)	16, 21
U. S. 5 (P.C.J.A.) U. S. 5 (Stewart)	19 19 4
U. S. 13 (Burrus)	21
U. S. 13 (Canterbury) U. S. 13 (C. Doubet & Son)	22, 23A
U. S. 13 (C. Doubet & Son)	14, 15A-B
U. S. 13 (Frey)	

Hybrid	Table
U. S. 13 (Huey Seed Co.)	
U. S. 13 (Lehmann)	16.1-15, 21
U. S. 13 (Monier)	19 134
U. S. 13 (Mountjoy)	16
U. S. 13 (Pocklington)	
U. S. 13 (Tiemann)	0 201 21
II S 13 (Van Horn)	16
U. S. 13 (Van Horn) U. S. 14 (Ferris) 8, 9A, 10, 11, 12, 13A, 14, 15.	17 184
U. S. 35 (Allen)	1, 17, 10.7
U. S. 35 (Burrus)	14 15A-P
U. S. 35 (Huey Seed Co.)	14, 15A-B
U. S. 35 (Ferris) 8, 9A, 10, 11, 12, 13A-B,	14, 15A-B
U. S. 35 (Sieben)	
U. S. 44 (Ferris)	-D 10, 11
U. S. 44 (Frey)	
U. S. 44 (Gentert)	11, 183-U
U. S. 44 (Morgan)	12, 103-D -D 10 11
U. S. 44 (Sieben) 6, 8, 9A	
U. S. 44 (Tiemann)	17 18 1 C
U. S. 45 (L. A. Sass)	19 124
U. S. 63 (Coldwater)	12, 103
U. S. 63 (Ferris)	0, 12, 132
U. S. 63 (Munson)	Q 10
0. 0. 00 (Mulison)	0, 10
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Van Horn 55	
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Open-Pollinated Varieties

Seeber 11A	Variety Table
Seeber 11B	Blackhawk 22, 23A-C
Seeber 36	Bunning White Dent 19, 20A-C, 21
Seeber 45	Canterbury Yellow Dent. 14, 15A, 16, 17, 18A, 19,
Seeber 50	204-8 21
Seeber 55	20A-B, 21 Champion White Pearl
Sibley Farms S73	Doubet Yellow Dent 8, 9A-C, 10, 11, 12, 13A-C, 14,
Sibley Farms S75	15A-C 16 17 18A-C
Sibley Farms 753A	15A-C, 16, 17, 18A-C Gunn Western Plowman
Sibley Farms 753B	Huebsch-Murdock Yellow Dent 4. 5A-D
Silver Cross W12 (Michael Leonard)	Hunt White Dent 6, 7A-B, 8, 9A-B, 10, 11, 12, 13A-B
Stewart S22	Krug
Stiegelmeier 38	Learning
Stiegelmeier 44	Maland Yellow Dent 4, 5A-C, 6, 7A-C
Stiegelmeier 100	McLurkin White Dent 22, 23A, 24, 25A, 26, 27, 28
Stiegelmeier 380	Mohawk
Stiegelmeier 702	Mountjoy Utility Dent 14, 15A-D, 16, 17, 18A-D
Stiegelmeier 901	Pfingston Yellow Dent
Stiegelmeier 904	Rice White Dent 19, 20A-C, 21
U. S. 5 (Hulting)	Roeschley Yellow Dent8, 9A-D, 10, 11, 12, 13A-D
U. S. 5 (Mountjoy)	Shuman Golden Beauty
U. S. 5 (Oakes)	Sommer Yellow Dent. 14, 15A-B, 17, 18A-B
U. S. 5 (P.C.I.A.)	Station Yellow Dent. 8, 10, 12, 14, 15A-D, 16, 17, 18A-D
U. S. 5 (Stewart)	Stelford White Cap
U. S. 13 (Burrus)	St. Charles White 22, 23A-C, 24, 25A-B, 26, 27, 28
U. S. 13 (Canterbury)	Waddell Utility White Dent
U. S. 13 (C. Doubet & Son)	Waddell Utility Yellow Dent
U. S. 13 (Frey)	Wessbecker Yellow Dent
U. S. 13 (Holmes)	Wilson Yellow Dent 19, 20A-B, 21, 24, 25A-B, 26

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